

FALL 2026



**SMASHING**

**Performance  
BARRIERS**

# PRODUCT CATALOG

**RF & mmWave  
Components**

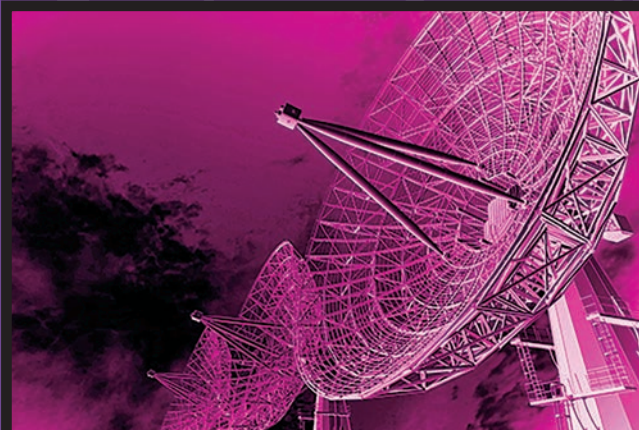
**Connectorized**

**Waveguide**

**THE TRUSTED LEADER WHEN PERFORMANCE MATTERS**



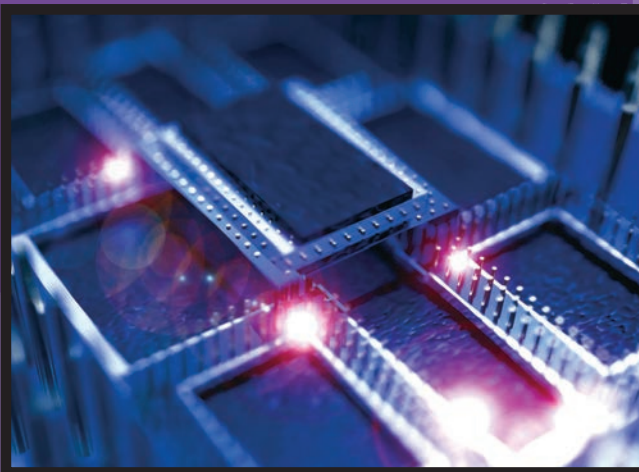
**M**arki Microwave holds a unique place in the RF and millimeter wave industry, combining time-honored hybrid fabrication and assembly techniques with a modern MMIC design approach. This enables us to push the technological boundaries of broadband RF and microwave components like never before, supporting frequencies from DC to sub-terahertz.



At Marki Microwave, we engineer packaging as precisely as we design our MMICs. Marki Microwave's portfolio spans high-performance stripline and low-loss suspended substrate designs to MMIC-integrated connectorized and waveguide solutions. Our inline bullet housings, optimized for our extensive bare die portfolio, deliver low loss and excellent return loss across wide bandwidths, while our multi-octave M-Package and precision waveguide assemblies extend operation into millimeter wave. By co-designing the die and its housing, we ensure optimal electrical and mechanical performance. Marki Microwave delivers one of the most comprehensive selections of high-performance die, surface mount, connectorized, and waveguide microwave components in the world, and we have only just started!

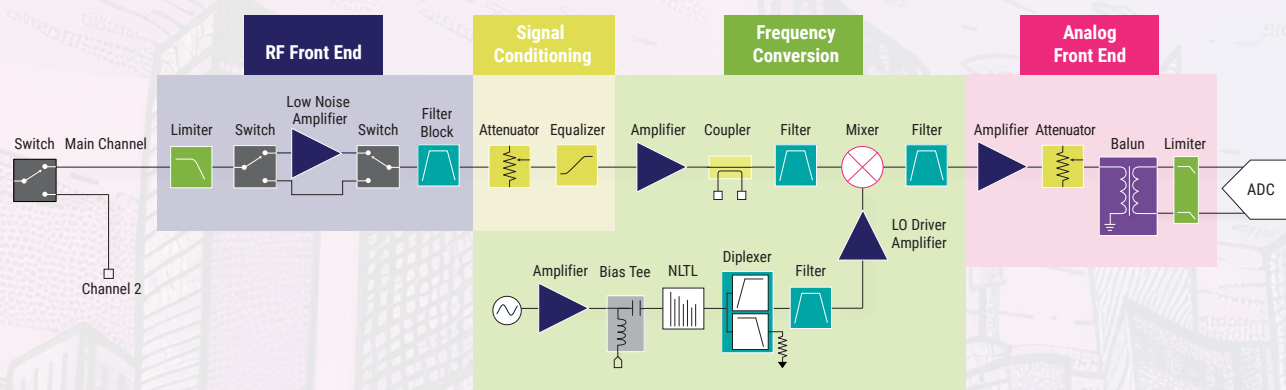
Marki Microwave's right-first-time design methodology ensures the simulation data we deliver provides a highly accurate representation of actual device performance under real operating conditions. This methodology enables efficient reuse of our extensive IP portfolio, addressing diverse application requirements while reducing design iteration cycles and accelerating time-to-deployment.

At the core of this capability is a unified simulation flow employed across our engineering organization, incorporating full 3D electromagnetic simulation for all MMIC products, including the die, package interfaces, RF launches, and, where applicable, the final mechanical enclosure. These simulations are executed using custom process design kits (PDKs) and leverage a validated and continuously expanding IP library, ensuring first-pass success and high correlation between simulated and measured performance from concept through production release.



# THE TRUSTED LEADER WHEN PERFORMANCE MATTERS

For more than 35 years, Marki Microwave has pushed the boundaries of RF and microwave performance through a portfolio of industry-leading, high-frequency components. Founded in 1991 with a mission to build the industry's best mixers, the company now delivers broadband solutions across the entire RF signal chain, supporting applications from DC to sub-THz frequencies in die, surface-mount, and connectorized form factors.



Trusted globally by innovators in aerospace and defense, test and measurement, and satellite communications, Marki Microwave continues to engineer the technology breakthroughs powering next-generation systems.

Learn more at [www.markimicrowave.com](http://www.markimicrowave.com).

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## ■ WAVEGUIDE

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## CONNECTORIZED

### ADAPTERS, High Performance

| Part Number                 | Band (GHz) | VSWR | Description           | ECCN  |
|-----------------------------|------------|------|-----------------------|-------|
| <a href="#">ADPFKFK</a>     | DC-40      | 1.1  | 2.92mm F to 2.92 mm F | EAR99 |
| <a href="#">ADPMKMK</a>     | DC-40      | 1.1  | 2.92mm M to 2.92mm M  | EAR99 |
| <a href="#">ADPMKFK</a>     | DC-40      | 1.1  | 2.92mm M to 2.92mm F  | EAR99 |
| <a href="#">ADPFVFK</a>     | DC-40      | 1.15 | 2.4mm F to 2.92 mm F  | EAR99 |
| <a href="#">ADPFVMK</a>     | DC-40      | 1.15 | 2.4mm F to 2.92mm M   | EAR99 |
| <a href="#">ADPMVFK</a>     | DC-40      | 1.15 | 2.4mm M to 2.92 mm F  | EAR99 |
| <a href="#">ADPMVMK</a>     | DC-40      | 1.15 | 2.4mm M to 2.92mm M   | EAR99 |
| <a href="#">ADPFVFEV</a>    | DC-50      | 1.15 | 2.4mm F to 2.4mm F    | EAR99 |
| <a href="#">ADPMVMV</a>     | DC-50      | 1.15 | 2.4mm M to 2.4mm M    | EAR99 |
| <a href="#">ADPMVFEV</a>    | DC-50      | 1.15 | 2.4mm M to 2.4mm F    | EAR99 |
| <a href="#">RA40(FM)</a>    | DC-40      | 1.4  | 2.92M to 2.92F        | EAR99 |
| <a href="#">RA50(FM/MM)</a> | DC-50      | 1.4  | 2.92M to 2.92F        | EAR99 |

### AMPLIFIERS, Driver

| Part Number                      | Band (GHz) | Gain (dB) | Psat (dBm) | OIP3 (dBm) | Voltage (V)                       | Current (mA)  | ECCN          |
|----------------------------------|------------|-----------|------------|------------|-----------------------------------|---------------|---------------|
| <a href="#">ADM3-00001PD</a>     | 0.0003-18  | 37        | +23        | +31        | See Datasheet                     | 120, 120, 100 | EAR99         |
| <a href="#">AMM2-0020UH</a>      | 0.01 - 20  | 29        | +23        | +33        | +5.5 to +20 VD                    | 240           | EAR99         |
| <a href="#">APM-7099PA</a>       | 0.1-20     | 14        | +25        | +24        | +8 VC and +7 VB                   | 72            | EAR99         |
| <a href="#">ADM3-0022PA</a>      | 0.01-22    | 35        | +30        | +31        | See Datasheet                     | 115, 115, 450 | EAR99         |
| <a href="#">APM-7098PA</a>       | 0.1-22     | 14        | +23        | +24        | +8 VC and +7 VB                   | 44            | EAR99         |
| <a href="#">APM-7516PA</a>       | 1-22       | 12.5      | +23        | +33        | +5 VC and +5 VB                   | 106           | EAR99         |
| <a href="#">ADM1-0026PA</a>      | 0.005-26.5 | 12        | +20        | +25        | +3 to +7 VD and -0.3 to 0 VG      | 165           | EAR99         |
| <a href="#">AMM-7473PC</a>       | 0.4-26.5   | 16        | +25        | +34        | +5 to +7 VD and -0.7 to -0.6 VG   | 150           | EAR99         |
| <a href="#">APM-6849PA</a>       | 2-29       | 11        | +21        | +21        | +7 VC and +7 VB                   | 21            | EAR99         |
| <a href="#">ADM2-0035PA</a>      | 0.1-35     | 23        | +23        | +30        | +3 to +7 VD and -0.3 to 0 VG      | 320           | EAR99         |
| <a href="#">AMM-7199UC</a>       | 11-38      | 20.5      | +21        | +31        | +3 to +4 VD and -0.6 to -0.4 VG   | 180           | EAR99         |
| <a href="#">ADM1-8007APC</a>     | 2-40       | 22        | +22        | +30        | +3 to +6 VD and +3 to +6VG        | 213           | EAR99         |
| <a href="#">AMM-7200UC</a>       | 12-46      | 18        | +21.5      | +29        | +3 to +4 VD and -0.6 to -0.4 VG   | 180           | EAR99         |
| <a href="#">AMM-6702(UC/UC5)</a> | 20-55      | 24        | +21        | +27        | +3 to +4 VD and -0.6 to -0.4 VG   | 180/230       | EAR99         |
| <a href="#">AMM-8211UC5</a>      | 22-57      | 13        | +21        | +27        | +3.5 to +5.5 VB                   | 175           | EAR99         |
| <a href="#">AMM-7203UC</a>       | 30-60      | 11.5      | +16        | +21        | +1.5 to +3 VD and -0.6 to -0.4 VG | 80            | EAR99         |
| <a href="#">A-3567UC</a>         | 35-67      | 19        | +20        | +26        | +3 to +4 VD and -0.6 to -0.4 VG   | 300           | EAR99         |
| <a href="#">AMM2-0070UH</a>      | 0.01 - 70  | 18        | +12        | +20        | +5.5 to +20 VD                    | 108           | EAR99         |
| <a href="#">AMM-0001M</a>        | 45-95      | 11        | +19        | -          | +1.5 to 4V VD and -1.5V to 0V VG  | 350           | 3A001.b.4.e.2 |
| <a href="#">AMM-9893M</a>        | 45-95      | 18        | +17        | -          | +3.5 V                            | 360           | 3A001.b.2.h   |

\*New Release since 6/2026

All electrical specifications given are typical values.

**AMPLIFIERS, [Gain Block](#) and [Low Noise](#)**

| Part Number                 | Band (GHz) | Gain (dB) | NF (dB) | OP1dB (dBm) | OIP3 (dBm) | Voltage (V) | Current (mA) | ECCN  |
|-----------------------------|------------|-----------|---------|-------------|------------|-------------|--------------|-------|
| <a href="#">ADM1-8096PC</a> | 0.09-6     | 22.5      | 1.5     | +23         | +35        | +5 VD       | 84           | EAR99 |
| <a href="#">ADM-8622PC</a>  | 0.0003-10  | 15        | 2.1     | +13         | +27        | +3.3 VD     | 42           | EAR99 |
| <a href="#">ADM1-8095PC</a> | 0.09-10    | 18        | 1.6     | +18.5       | +32        | +5 VD       | 57           | EAR99 |
| <a href="#">ADM-8344PC</a>  | DC-18      | 18        | 1.4     | +18         | +27        | +5 VD       | 103          | EAR99 |
| <a href="#">ADM-8558PC</a>  | 0.005-20   | 15        | 2.2     | +14         | +23        | +6 VD       | 50           | EAR99 |
| <a href="#">ADM-8624PC</a>  | 0.2-20     | 10.5      | 3       | +13.5       | +26        | +5 VD       | 40           | EAR99 |
| <a href="#">ADM-8556PC</a>  | 6-20       | 23        | 1.7     | +15         | +26        | +3 VD       | 67           | EAR99 |

**ATTENUATORS, [Precision-Grade](#)**

| Part Number                           | Band (GHz) | Attenuation (dB) | Accuracy (dB) | Return Loss (dB) | ECCN  |
|---------------------------------------|------------|------------------|---------------|------------------|-------|
| <a href="#">ATN03-0040BH</a>          | DC-40      | 3                | 0.5           | 29               | EAR99 |
| <a href="#">ATN06-0040BH</a>          | DC-40      | 6                | 0.9           | 30               | EAR99 |
| <a href="#">ATN10-0040BH</a>          | DC-40      | 10               | 0.5           | 29               | EAR99 |
| <a href="#">ATN15-0040BH</a>          | DC-40      | 15               | 0.5           | 27               | EAR99 |
| <a href="#">ATN20-0040BH</a>          | DC-40      | 20               | 0.8           | 27               | EAR99 |
| <a href="#">ATN06-0067(-2HV/-3HV)</a> | DC-67      | 6.4              | see datasheet | 23               | EAR99 |
| <a href="#">ATN10-0067(-2HV/-3HV)</a> | DC-67      | 10.5             | see datasheet | 22               | EAR99 |
| <a href="#">ATN06-00110(-2W/-3W)</a>  | DC-110     | 6.5              | see datasheet | 20               | EAR99 |
| <a href="#">ATN10-00110(-2W/-3W)</a>  | DC-110     | 10.5             | see datasheet | 20               | EAR99 |

**BALUNS, [Passive](#)**

| Part Number               | Band (GHz)  | Amp Bal (dB) | Phase Bal (°) | Isolation (dB) | Turns Ratio | Total Insertion Loss as a Mode Converter (dB) | ECCN  |
|---------------------------|-------------|--------------|---------------|----------------|-------------|-----------------------------------------------|-------|
| <a href="#">BAL-0003</a>  | 0.0002-3    | 0.05         | 1             | 8              | 1:2         | 4                                             | EAR99 |
| <a href="#">BALH-0003</a> | 0.0002-3    | 0.1          | 1             | 7              | 1:1         | 1.5                                           | EAR99 |
| <a href="#">BAL-0006</a>  | 0.0002-6    | 0.05         | 1             | 9              | 1:2         | 4.5                                           | EAR99 |
| <a href="#">BALH-0006</a> | 0.0002-6    | 0.1          | 1             | 8              | 1:1         | 2.5                                           | EAR99 |
| <a href="#">BAL-0010</a>  | 0.0002-10   | 0.2          | 2             | 9              | 1:2         | 5                                             | EAR99 |
| <a href="#">BALH-0010</a> | 0.0002-10   | 0.2          | 2             | 8              | 1:1         | 2.5                                           | EAR99 |
| <a href="#">BAL-0106</a>  | 1.2-6       | 0.1          | 2             | 6              | 1:2         | 0.6                                           | EAR99 |
| <a href="#">BAL-0212</a>  | 2.6-12      | 0.1          | 2             | 6              | 1:2         | 1                                             | EAR99 |
| <a href="#">BAL-0520</a>  | 5-20        | 0.2          | 3             | 6              | 1:2         | 1.5                                           | EAR99 |
| <a href="#">EBAL-0026</a> | 0.01-26     | 1.0          | 1             | 3              | 1:2         | 3                                             | EAR99 |
| <a href="#">BAL-0026</a>  | 0.0003-26.5 | 0.5          | 3             | 24             | 1:2         | 2.5                                           | EAR99 |
| <a href="#">BAL-0036</a>  | 0.0003-36   | 0.5          | 3             | 24             | 1:2         | 3                                             | EAR99 |
| <a href="#">EBAL-0040</a> | 0.01-40     | 0.1          | 2             | 5              | 1:2         | 3                                             | EAR99 |
| <a href="#">BAL-0050</a>  | 0.0003-50   | 0.7          | 4             | 25             | 1:2         | 7                                             | EAR99 |
| <a href="#">EBAL-0050</a> | 0.01-50     | 0.2          | 3             | 5              | 1:2         | 4                                             | EAR99 |
| <a href="#">BAL-0067</a>  | 0.0003-67   | 0.7          | 4             | 25             | 1:2         | 8.5                                           | EAR99 |
| <a href="#">EBAL-0067</a> | 0.01-67     | 0.2          | 2             | 5              | 1:2         | 4                                             | EAR99 |

**\*New Release since 6/2026**

All electrical specifications given are typical values.

**PULSE INVERTERS, Broadband, Fast Rise Time**

| Part Number              | Band (GHz)  | Loss (dB) | Rise/Fall Time (ps) | ECCN  |
|--------------------------|-------------|-----------|---------------------|-------|
| <a href="#">INV-0026</a> | 0.0001-26.5 | 2         | 13                  | EAR99 |
| <a href="#">INV-0040</a> | 0.0001-40   | 2.5       | 13                  | EAR99 |
| <a href="#">INV-0065</a> | 0.0001-65   | 5         | 12                  | EAR99 |

**BIAS TEES**

| Part Number               | Band (GHz)  | DC Voltage (V) | DC Current (A) | Insertion Loss (dB) | ECCN  |
|---------------------------|-------------|----------------|----------------|---------------------|-------|
| <a href="#">BT-0018</a>   | 0.00004-18  | 30             | 0.5            | 0.6                 | EAR99 |
| <a href="#">BTN1-0018</a> | 0.0005-18   | 50             | 1              | 0.7                 | EAR99 |
| <a href="#">BTN2-0018</a> | 0.003-18    | 50             | 2              | 0.7                 | EAR99 |
| <a href="#">BT-0025</a>   | 0.00004-25  | 30             | 0.5            | 0.8                 | EAR99 |
| <a href="#">BT-0026</a>   | 0.01-26.5   | 30             | 0.5            | 0.8                 | EAR99 |
| <a href="#">BT1-0026</a>  | 0.0002-26.5 | 50             | 1              | 1                   | EAR99 |
| <a href="#">BT2-0026</a>  | 0.0002-26.5 | 50             | 2              | 1                   | EAR99 |
| <a href="#">BTN1-0026</a> | 0.0005-26.5 | 50             | 1              | 1                   | EAR99 |
| <a href="#">BTN2-0026</a> | 0.003-26.5  | 50             | 2              | 1                   | EAR99 |
| <a href="#">BT-0040</a>   | 0.000004-40 | 30             | 0.5            | 1.5                 | EAR99 |
| <a href="#">BTN-0040</a>  | 0.00004-40  | 30             | 0.5            | 1.5                 | EAR99 |
| <a href="#">BT1-0040</a>  | 0.0002-40   | 50             | 1              | 1.5                 | EAR99 |
| <a href="#">BT2-0040</a>  | 0.0002-40   | 50             | 2              | 1.5                 | EAR99 |
| <a href="#">BTN1-0040</a> | 0.0005-40   | 50             | 1              | 1.5                 | EAR99 |
| <a href="#">BTN2-0040</a> | 0.003-40    | 50             | 2              | 1.5                 | EAR99 |
| <a href="#">BT-0050</a>   | 0.0002-50   | 30             | 0.5            | 1.8                 | EAR99 |
| <a href="#">BTN-0050</a>  | 0.0002-50   | 30             | 0.5            | 1.8                 | EAR99 |
| <a href="#">BT1-0050</a>  | 0.0002-50   | 50             | 1              | 1.5                 | EAR99 |
| <a href="#">BT2-0050</a>  | 0.0002-50   | 50             | 2              | 1.5                 | EAR99 |
| <a href="#">BTN1-0050</a> | 0.0005-50   | 50             | 1              | 1.5                 | EAR99 |
| <a href="#">BTN2-0050</a> | 0.003-50    | 50             | 2              | 1.5                 | EAR99 |
| <a href="#">BT-0065</a>   | 0.000004-65 | 30             | 0.5            | 1.8                 | EAR99 |
| <a href="#">BTN-0065</a>  | 0.00004-65  | 30             | 0.5            | 2.0                 | EAR99 |

**DC BLOCKS, Broadband**

| Part Number       | Band (GHz)  | Loss (dB) | DC Voltage (V) | Rise Time (ps) | Group Delay (ps) | ECCN  |
|-------------------|-------------|-----------|----------------|----------------|------------------|-------|
| DCZ(M-F)29(M-F)29 | 0.000004-40 | 0.7       | 16             | 6              | 75               | EAR99 |
| DCZ(M-F)24(M-F)24 | 0.000004-50 | 0.7       | 16             | 6              | 75               | EAR99 |

**\*New Release since 6/2026**

All electrical specifications given are typical values.

**COUPLERS, High Directivity Bridge**

| Part Number                | Band (GHz) | Coupling (dB) | Directivity (dB) | VSWR | ECCN  |
|----------------------------|------------|---------------|------------------|------|-------|
| <a href="#">CBR16-0003</a> | 0.0002-3   | 16            | 40               | 1.1  | EAR99 |
| <a href="#">CBR16-0006</a> | 0.0002-6   | 16            | 38               | 1.15 | EAR99 |
| <a href="#">CBR16-0012</a> | 0.0002-12  | 16            | 32               | 1.25 | EAR99 |
| <a href="#">CBR17-0026</a> | 0.0002-26  | 17            | 23               | 1.22 | EAR99 |

**COUPLERS, Low Loss High Power**

| Part Number               | Band (GHz) | Coupling (dB) | Directivity (dB) | Loss (dB) | Average Power Handling (W) | ECCN  |
|---------------------------|------------|---------------|------------------|-----------|----------------------------|-------|
| <a href="#">C17-0R506</a> | 0.5-6      | 17            | 20               | 0.4       | 120                        | EAR99 |
| <a href="#">C17-0R512</a> | 0.5-12     | 17            | 20               | 0.65      | 80                         | EAR99 |
| <a href="#">C17-0R518</a> | 0.5-18     | 17            | 20               | 1         | 60                         | EAR99 |
| <a href="#">CA-18</a>     | DC-18      | > 30          | 22               | 0.35      | 200                        | EAR99 |
| <a href="#">CA-26</a>     | DC-26.5    | > 27          | 24               | 0.35      | 50                         | EAR99 |
| <a href="#">CA-40</a>     | DC-40      | > 27          | 24               | 0.5       | 20                         | EAR99 |
| <a href="#">CA-50</a>     | DC-50      | > 27          | 24               | 0.5       | 15                         | EAR99 |
| <a href="#">C-0250</a>    | 2-50       | 12            | 15               | 0.7       | 10                         | EAR99 |
| <a href="#">C-0265</a>    | 2-65       | 12            | 15               | 0.7       | 10                         | EAR99 |

**COUPLERS, Stripline Directional**

| Part Number                  | Band (GHz) | Coupling (dB) | Directivity (dB) | Flatness (dB) | VSWR | ECCN  |
|------------------------------|------------|---------------|------------------|---------------|------|-------|
| <a href="#">C09-0R412</a>    | 0.45-12    | 9             | 22               | ±0.7          | 1.15 | EAR99 |
| <a href="#">C09-0R418</a>    | 0.45-18    | 9             | 22               | ±0.7          | 1.15 | EAR99 |
| <a href="#">C09-0R426</a>    | 0.45-26.5  | 9             | 22               | ±0.7          | 1.15 | EAR99 |
| <a href="#">C09-0R430</a>    | 0.45-30    | 9             | 20               | ±0.7          | 1.15 | EAR99 |
| <a href="#">C20-0R612</a>    | 0.6-12     | 20            | 22               | ±0.6          | 1.2  | EAR99 |
| <a href="#">C10-0116</a>     | 1-16       | 10            | 20               | ±0.5          | 1.15 | EAR99 |
| <a href="#">C20-0116</a>     | 1-16       | 20            | 20               | ±0.6          | 1.15 | EAR99 |
| <a href="#">C20-0R518</a>    | 0.5-18     | 20            | 22               | ±0.75         | 1.2  | EAR99 |
| <a href="#">C20-0R520</a>    | 0.5-20     | 20            | 22               | ±0.75         | 1.2  | EAR99 |
| <a href="#">C13-0126</a>     | 1-26.5     | 13            | 20               | ±0.6          | 1.15 | EAR99 |
| <a href="#">C16-1R718</a>    | 1.7-18     | 16            | 20               | ±0.3          | 1.15 | EAR99 |
| <a href="#">C16-1R726</a>    | 1.7-26.5   | 16            | 20               | ±0.4          | 1.15 | EAR99 |
| <a href="#">C10-0226</a>     | 2-26.5     | 10            | 22               | ±0.6          | 1.15 | EAR99 |
| <a href="#">C20-0226</a>     | 2-26.5     | 20            | 22               | ±0.75         | 1.25 | EAR99 |
| <a href="#">C13-0140</a>     | 1-40       | 13            | 16               | ±0.1          | 1.2  | EAR99 |
| <a href="#">C20-0240</a>     | 2-40       | 20            | 17               | ±0.75         | 1.3  | EAR99 |
| <a href="#">C13-0150</a>     | 1-50       | 13            | 16               | ±0.75         | 1.2  | EAR99 |
| <a href="#">C10-0450</a>     | 4-50       | 10            | 15               | ±0.5          | 1.35 | EAR99 |
| <a href="#">C10-0667</a>     | 6-67       | 10            | 17               | ±0.8          | 1.2  | EAR99 |
| <a href="#">C16-0667</a>     | 6-67       | 16            | 17               | ±0.9          | 1.25 | EAR99 |
| <a href="#">C20-0667</a>     | 6-67       | 20            | 17               | ±0.8          | 1.25 | EAR99 |
| <a href="#">MC10-25110M2</a> | 25-110     | 10            | 19.5             | +0.2          | 1.43 | EAR99 |

**\*New Release since 6/2026**

All electrical specifications given are typical values.

**COUPLERS, Elite Stripline Directional**

| Part Number                   | Band (GHz) | Coupling (dB) | IL Corrected Directivity (dB) | Flatness (dB) | VSWR      | ECCN  |
|-------------------------------|------------|---------------|-------------------------------|---------------|-----------|-------|
| <a href="#">CE10-0R620T</a>   | 0.6-20     | 10            | 27                            | ±0.2          | 1.07      | EAR99 |
| <a href="#">CE10-0R640(T)</a> | 0.6-40     | 10            | 24/22                         | ±0.2          | 1.07/1.08 | EAR99 |
| <a href="#">CE10-1R520(T)</a> | 1.5-20     | 10            | 32                            | ±0.25         | 1.07      | EAR99 |
| <a href="#">CE10-1R540(T)</a> | 1.5-40     | 10            | 26/22                         | ±0.25         | 1.07      | EAR99 |
| <a href="#">CE13-0220T</a>    | 2-20       | 13            | 30                            | ±0.15         | 1.07      | EAR99 |
| <a href="#">CE13-0240(T)</a>  | 2-40       | 13            | 29/27                         | ±0.15         | 1.07/1.08 | EAR99 |
| <a href="#">CE16-0220T</a>    | 2-20       | 16            | 32                            | ±0.1          | 1.07      | EAR99 |
| <a href="#">CE16-0240(T)</a>  | 2-40       | 16            | 30/29                         | ±0.1          | 1.07      | EAR99 |
| <a href="#">CE20-0R620T</a>   | 0.6-20     | 20            | 26                            | ±0.15         | 1.07      | EAR99 |
| <a href="#">CE20-1R640(T)</a> | 0.6-40     | 20            | 27/24                         | ±0.15         | 1.07      | EAR99 |
| <a href="#">CE20-0220T</a>    | 2-20       | 20            | 30                            | ±0.1          | 1.07      | EAR99 |
| <a href="#">CE20-0R240(T)</a> | 2-40       | 20            | 33/28                         | ±0.1          | 1.05/1.07 | EAR99 |

**COUPLERS, Dual Directional**

| Part Number               | Band (GHz) | Coupling (dB) | Directivity (dB) | Flatness (dB) | VSWR | ECCN  |
|---------------------------|------------|---------------|------------------|---------------|------|-------|
| <a href="#">CD10-0106</a> | 0.7-6.3    | 10            | 25               | ±0.6          | 1.14 | EAR99 |
| <a href="#">CD10-0114</a> | 0.7-14.7   | 10            | 23               | ±0.6          | 1.17 | EAR99 |

**COUPLERS, Pick-Off Tees**

| Part Number                | Band (GHz) | Pick-Off Loss (dB) | Insertion Loss (dB) | ECCN  |
|----------------------------|------------|--------------------|---------------------|-------|
| <a href="#">PT-0020</a>    | DC-20      | 16                 | 2                   | EAR99 |
| <a href="#">PT-0030(A)</a> | DC-30      | 16                 | 2                   | EAR99 |

**\*New Release since 6/2026**

All electrical specifications given are typical values.

## COUPLERS, Hybrid

| Part Number                  | Band (GHz) | Amp Bal (dB) | Phase Bal (°) | Excess Loss (dB) | Isolation (dB) | ECCN  |
|------------------------------|------------|--------------|---------------|------------------|----------------|-------|
| <a href="#">QH-0R518</a>     | 0.5-18     | ±0.5         | ±3            | 1.5              | 20             | EAR99 |
| <a href="#">QH-0R71R3</a>    | 0.65-1.3   | ±0.3         | ±3            | 0.5              | 16             | EAR99 |
| <a href="#">QH-0R714</a>     | 0.7-14.5   | ±0.2         | ±2            | 1.2              | 22             | EAR99 |
| <a href="#">MQS-0209UB</a>   | 2-9        | ±0.5         | ±3            | 2                | 16             | EAR99 |
| <a href="#">MQS-0218UA</a>   | 2-18       | ±1           | ±3            | 1.4              | 17             | EAR99 |
| <a href="#">QH-0226</a>      | 2-26.5     | ±0.25        | ±2            | 2                | 22             | EAR99 |
| <a href="#">MQH-2R58R5UB</a> | 2.5-8.5    | ±0.4         | ±3            | 2                | 23             | EAR99 |
| <a href="#">MQH-3R510UB</a>  | 3.5-10     | ±0.4         | ±1.5          | 1.8              | 25             | EAR99 |
| <a href="#">MQS-0418UA</a>   | 4-18       | ±0.4         | ±0.5          | 1.5              | 20             | EAR99 |
| <a href="#">QH-0440</a>      | 4-40       | ±0.4         | ±5            | 2                | 18             | EAR99 |
| <a href="#">MQH-0517UB</a>   | 5-17       | ±0.5         | ±6            | 1.6              | 23             | EAR99 |
| <a href="#">QH-0550</a>      | 5-50       | ±0.6         | ±5            | 1                | 22             | EAR99 |
| <a href="#">QH-0867</a>      | 8-67       | ±0.6         | ±6            | 1.2              | 18             | EAR99 |
| <a href="#">MQH-40110M2</a>  | 40-110     | ±1           | ±5            | 2.5              | 18             | EAR99 |

## DIPLEXERS

| Part Number                    | LPF F Min (GHz) | LPF F Max (GHz) | HPF F Min (GHz) | HPF F Max (GHz) | ECCN  |
|--------------------------------|-----------------|-----------------|-----------------|-----------------|-------|
| <a href="#">DPXN-M50</a>       | DC              | 0.035           | 0.07            | 10              | EAR99 |
| <a href="#">DPXN-0R5</a>       | DC              | 0.36            | 0.7             | 8               | EAR99 |
| <a href="#">DPXN-1</a>         | DC              | 0.85            | 1.4             | 5               | EAR99 |
| <a href="#">DPXN-2</a>         | DC              | 1.5             | 2.7             | 7               | EAR99 |
| <a href="#">DPXN-3</a>         | DC              | 2.3             | 4.2             | 8               | EAR99 |
| <a href="#">DPXN-4</a>         | DC              | 2.8             | 5.5             | 12              | EAR99 |
| <a href="#">MDPX-0305</a>      | DC              | 3               | 5               | 26.5            | EAR99 |
| <a href="#">MDPX-0407</a>      | DC              | 4               | 7               | 26.5            | EAR99 |
| <a href="#">DPX-0508</a>       | DC              | 5               | 8               | 18              | EAR99 |
| <a href="#">MDPX-0609</a>      | DC              | 6               | 9               | 26.5            | EAR99 |
| ◆ <a href="#">MDPX-0609BH*</a> | DC              | 6               | 9               | 26.5            | EAR99 |
| <a href="#">MDPX-0710</a>      | DC              | 7               | 10              | 26.5            | EAR99 |
| <a href="#">DPX-9516</a>       | DC              | 9.5             | 16              | 32              | EAR99 |
| <a href="#">DPX-1114</a>       | DC              | 11              | 14              | 30              | EAR99 |
| <a href="#">DPX-1721</a>       | DC              | 17              | 21.5            | 40              | EAR99 |

## EQUALIZERS, Positive Slope

| Part Number | Band (GHz) | Loss at DC (dB)                                               | Typ Return Loss (dB) | ECCN  |
|-------------|------------|---------------------------------------------------------------|----------------------|-------|
| EQX-26      | DC-26      | <a href="#">3</a> , <a href="#">6</a>                         | 21, 15               | EAR99 |
| MEQX-26ABH  | DC-26.5    | <a href="#">3*</a> , <a href="#">6*</a> , <a href="#">10*</a> | 26, 26, 27           | EAR99 |
| MEQX-26AS   | DC-26.5    | <a href="#">3</a> , <a href="#">6</a> , <a href="#">10</a>    | 18, 20, 20           | EAR99 |
| EQX-40      | DC-40      | <a href="#">3</a> , <a href="#">6</a>                         | 18                   | EAR99 |
| MEQX-40ABH  | DC-40      | <a href="#">6</a> , <a href="#">10</a>                        | 24, 25               | EAR99 |
| MEQ10-50AU  | DC-50      | <a href="#">10</a>                                            | 15                   | EAR99 |
| MEQX-60ABH  | DC-60      | <a href="#">4</a> , <a href="#">6</a> , <a href="#">10</a>    | 25, 24, 22           | EAR99 |

\*New Release since 6/2026

All electrical specifications given are typical values.

**FIXED FILTERS, Lowpass**

| Part Number                  | F1dBc High (GHz) | F3dBc High (GHz) | F30dBc High (GHz) | Passband Return Loss (dB) | ECCN  |
|------------------------------|------------------|------------------|-------------------|---------------------------|-------|
| <a href="#">FLP-0490</a>     | 4.6              | 5.0              | 6.7               | 20                        | EAR99 |
| <a href="#">FLP-0750</a>     | 6.1              | 7.6              | 9.6               | 30                        | EAR99 |
| <a href="#">MFLP-00002BH</a> | 6.4              | 9.3              | 11.2              | 25                        | EAR99 |
| <a href="#">FLP-1800</a>     | 8.7              | 18.0             | 19.8              | 20                        | EAR99 |
| <a href="#">FLP-0960</a>     | 9.0              | 9.7              | 12.7              | 25                        | EAR99 |
| <a href="#">FLP-1250</a>     | 11.1             | 12.6             | 15.4              | 20                        | EAR99 |
| <a href="#">FLP-2650</a>     | 11.3             | 26.6             | 30.8              | 22                        | EAR99 |
| <a href="#">FLP-3200</a>     | 11.4             | 32.2             | 36.1              | 15                        | EAR99 |
| <a href="#">FLP-2000</a>     | 12.6             | 20.0             | 22.1              | 20                        | EAR99 |
| <a href="#">FLP-2150</a>     | 13.1             | 21.5             | 26.1              | 18                        | EAR99 |
| <a href="#">FLP-1460</a>     | 13.2             | 14.6             | 19.6              | 20                        | EAR99 |
| <a href="#">FLP-1740</a>     | 13.7             | 17.4             | 19.8              | 20                        | EAR99 |
| <a href="#">FLP-2360</a>     | 14.2             | 23.6             | 27.5              | 18                        | EAR99 |
| <a href="#">MFLP-00005BH</a> | 14.3             | 18.1             | 20.9              | 21                        | EAR99 |
| <a href="#">FLP-1940</a>     | 14.9             | 19.5             | 26.0              | 25                        | EAR99 |
| <a href="#">FLP-3660</a>     | 15.2             | 36.7             | 41.4              | 26                        | EAR99 |
| <a href="#">FLP-4300</a>     | 16.3             | 43.1             | 47.6              | 26                        | EAR99 |
| <a href="#">FLP-5000</a>     | 18.0             | 50.0             | 54.8              | 15                        | EAR99 |

**FIXED FILTERS, Highpass**

| Part Number                    | F30dBc Low (GHz) | F3dBc Low (GHz) | F1dBc Low (GHz) | Passband Return Loss (dB) | ECCN  |
|--------------------------------|------------------|-----------------|-----------------|---------------------------|-------|
| <a href="#">MFHP-00001BH-S</a> | 1.4              | 1.9             | 2.4             | 19                        | EAR99 |
| <a href="#">MFHP-00002BH</a>   | 8.2              | 9.8             | 10.9            | 15                        | EAR99 |
| <a href="#">FH-1700</a>        | 14.3             | 16.5            | 16.8            | 13                        | EAR99 |
| <a href="#">FH-1800</a>        | 15.1             | 17.5            | 17.8            | 18                        | EAR99 |
| <a href="#">FH-2600</a>        | 21.4             | 25.1            | 25.8            | 14                        | EAR99 |
| <a href="#">FH-4000</a>        | 36.7             | 39.6            | 39.9            | 12                        | EAR99 |
| <a href="#">FH-5500</a>        | 51.3             | 54.3            | 54.6            | 12                        | EAR99 |

**\*New Release since 6/2026**

All electrical specifications given are typical values.

## FIXED FILTERS, Bandpass

| Part Number                  | F30dBc Low (GHz) | F3dBc Low (GHz) | F1dBc Low (GHz) | Fc (GHz) | F1dBc High (GHz) | F3dBc High (GHz) | F30dBc High (GHz) | IL @ Fc (dB) | ECCN  |
|------------------------------|------------------|-----------------|-----------------|----------|------------------|------------------|-------------------|--------------|-------|
| <a href="#">MFBP-00040BH</a> | 0.9              | 1.3             | 1.6             | 3.2      | 6.7              | 7.5              | 8.5               | 1.3          | EAR99 |
| <a href="#">MFBP-00084BH</a> | 5.4              | 5.9             | 6.1             | 7.5      | 9.3              | 9.9              | 10.5              | 2.4          | EAR99 |
| <a href="#">FB-0785</a>      | 6.6              | 7.1             | 7.2             | 7.9      | 8.6              | 8.6              | 9.2               | 1.9          | EAR99 |
| <a href="#">FB-0860</a>      | 6.6              | 7.8             | 8.0             | 8.6      | 9.2              | 9.4              | 10.4              | 1.9          | EAR99 |
| <a href="#">FB-0905</a>      | 7.2              | 8.3             | 8.5             | 9.0      | 9.6              | 9.8              | 10.8              | 2.2          | EAR99 |
| <a href="#">FB-0955</a>      | 9.5              | 8.8             | 8.9             | 9.6      | 10.1             | 10.3             | 9.5               | 2.1          | EAR99 |
| <a href="#">MFBA-00004BH</a> | 7.3              | 8.0             | 8.5             | 10.2     | 12.1             | 12.4             | 13.6              | 2.3          | EAR99 |
| <a href="#">FB-1050</a>      | 10.4             | 9.4             | 9.6             | 10.4     | 11.2             | 11.5             | 10.4              | 2.0          | EAR99 |
| <a href="#">FB-1145</a>      | 11.4             | 10.4            | 10.5            | 11.5     | 12.4             | 12.6             | 11.4              | 1.8          | EAR99 |
| <a href="#">FB-1215</a>      | 12.1             | 11.0            | 11.8            | 12.2     | 12.9             | 13.2             | 12.1              | 2.1          | EAR99 |
| <a href="#">FB-1310</a>      | 13.0             | 11.8            | 12.1            | 13.0     | 14.0             | 14.3             | 13.0              | 2.1          | EAR99 |
| <a href="#">FB-1385</a>      | 13.7             | 11.2            | 11.4            | 13.7     | 16.4             | 16.7             | 13.7              | 1.4          | EAR99 |
| <a href="#">FB-1390</a>      | 14.0             | 13.3            | 13.5            | 14.0     | 14.4             | 14.6             | 14.0              | 2.4          | EAR99 |
| <a href="#">FB-1450</a>      | 9.9              | 10.8            | 11.0            | 14.1     | 18.0             | 18.4             | 19.8              | 1.3          | EAR99 |
| <a href="#">FB-1445</a>      | 14.4             | 12.8            | 13.2            | 14.4     | 15.7             | 16.1             | 14.4              | 1.7          | EAR99 |
| <a href="#">FB-1500</a>      | 14.6             | 11.6            | 11.8            | 14.6     | 18.1             | 18.4             | 14.6              | 1.2          | EAR99 |
| <a href="#">MFBP-00086BH</a> | 11.5             | 12.2            | 12.6            | 15.0     | 17.9             | 18.4             | 19.2              | 2.0          | EAR99 |
| <a href="#">FB-1575</a>      | 11.7             | 14.1            | 14.5            | 15.7     | 17.0             | 17.4             | 19.3              | 2.0          | EAR99 |
| <a href="#">MFBA-00001BH</a> | 12.8             | 13.8            | 14.2            | 15.9     | 17.8             | 18.4             | 18.9              | 3.1          | EAR99 |
| <a href="#">FB-1655</a>      | 16.5             | 15.5            | 15.7            | 16.5     | 17.3             | 17.5             | 16.5              | 2.5          | EAR99 |
| <a href="#">FB-1690</a>      | 16.9             | 15.5            | 15.8            | 16.9     | 18.1             | 18.4             | 16.9              | 2.1          | EAR99 |
| <a href="#">FB-1725</a>      | 13.9             | 15.4            | 15.6            | 17.1     | 18.8             | 19.1             | 20.6              | 1.6          | EAR99 |
| <a href="#">FB-1800</a>      | 17.9             | 15.3            | 15.6            | 17.9     | 20.5             | 20.9             | 17.9              | 1.8          | EAR99 |
| <a href="#">FB-1840</a>      | 18.4             | 16.2            | 16.7            | 18.4     | 20.3             | 20.9             | 18.4              | 2.3          | EAR99 |
| <a href="#">MFBP-00053BH</a> | 14.0             | 15.4            | 15.7            | 18.8     | 22.6             | 23.2             | 25.5              | 1.7          | EAR99 |
| <a href="#">FB-2020</a>      | 13.9             | 16.1            | 16.4            | 19.7     | 23.7             | 24.4             | 26.6              | 1.8          | EAR99 |
| <a href="#">FB-2000</a>      | 19.7             | 17.8            | 18.2            | 19.7     | 21.3             | 21.6             | 19.7              | 1.9          | EAR99 |
| <a href="#">FB-2060</a>      | 20.5             | 18.4            | 18.8            | 20.5     | 22.4             | 22.7             | 20.5              | 2.1          | EAR99 |
| <a href="#">FB-2250</a>      | 16.9             | 17.7            | 18.1            | 22.1     | 27.0             | 27.8             | 28.6              | 1.5          | EAR99 |
| <a href="#">MFBP-00089BH</a> | 16.3             | 17.5            | 17.9            | 22.2     | 27.4             | 28.5             | 30.0              | 1.9          | EAR99 |
| <a href="#">FB-2430</a>      | 23.8             | 23.8            | 20.6            | 23.7     | 27.4             | 28.1             | 23.8              | 2.6          | EAR99 |
| <a href="#">FB-2400</a>      | 24.0             | 21.9            | 22.4            | 24.0     | 25.6             | 26.0             | 24.0              | 2.5          | EAR99 |
| <a href="#">FB-2500</a>      | 24.1             | 17.7            | 18.2            | 24.1     | 32.0             | 32.7             | 24.1              | 1.3          | EAR99 |
| <a href="#">FB-2480</a>      | 19.1             | 20.1            | 21.2            | 24.6     | 28.5             | 29.6             | 30.7              | 2.7          | EAR99 |
| <a href="#">MFBP-00045BH</a> | 22.1             | 23.1            | 23.5            | 25.8     | 28.3             | 29.1             | 30.4              | 2.8          | EAR99 |
| <a href="#">FB-2770</a>      | 27.4             | 22.7            | 23.4            | 27.4     | 32.0             | 32.8             | 27.4              | 2.1          | EAR99 |
| <a href="#">MFBP-00046BH</a> | 25.7             | 27.2            | 27.8            | 31.3     | 35.2             | 36.4             | 38.4              | 2.2          | EAR99 |
| <a href="#">FB-3300</a>      | 31.9             | 25.7            | 26.3            | 31.9     | 38.7             | 40.2             | 31.9              | 3.3          | EAR99 |
| <a href="#">FB-3270</a>      | 25.3             | 27.5            | 28.6            | 32.4     | 36.8             | 37.4             | 39.9              | 2.4          | EAR99 |
| <a href="#">MFB-3475U</a>    | 23.4             | 27.9            | 28.6            | 33.4     | 39.0             | 40.4             | 47.5              | 2.0          | EAR99 |
| <a href="#">FB-3700</a>      | 28.4             | 31.3            | 32.6            | 37.2     | 42.5             | 43.1             | 46.4              | 2.6          | EAR99 |
| <a href="#">MFBP-00057BH</a> | 27.0             | 29.8            | 30.2            | 37.1     | 45.6             | 47.3             | 52.7              | 2.0          | EAR99 |
| <a href="#">MFBP-00051BH</a> | 35.0             | 36.2            | 36.5            | 38.2     | 40.1             | 40.7             | 41.6              | 2.9          | EAR99 |

\*New Release since 6/2026

All electrical specifications given are typical values.

**FIXED FILTERS, Bandpass (cont.)**

| Part Number                  | F30dBc Low (GHz) | F3dBc Low (GHz) | F1dBc Low (GHz) | Fc (GHz) | F1dBc High (GHz) | F3dBc High (GHz) | F30dBc High (GHz) | IL @ Fc (dB) | ECCN  |
|------------------------------|------------------|-----------------|-----------------|----------|------------------|------------------|-------------------|--------------|-------|
| <a href="#">FB-4000</a>      | 30.0             | 33.4            | 35.2            | 40.2     | 46.0             | 46.7             | 50.0              | 2.4          | EAR99 |
| <a href="#">MFBC-00017M</a>  | 31.8             | 34.1            | 35.1            | 41.3     | 48.7             | 49.9             | 53.8              | 2.0          | EAR99 |
| <a href="#">MFBC-00008M</a>  | 43.2             | 36.3            | 36.9            | 43.2     | 50.5             | 43.2             | 43.2              | 1.9          | EAR99 |
| <a href="#">MFBP-00103BH</a> | 39.3             | 43.3            | 44.0            | 47.4     | 51.1             | 52.2             | 53.5              | 3.6          | EAR99 |
| <a href="#">MFBC-00018M</a>  | 52.4             | 43.6            | 44.9            | 52.4     | 61.2             | 63.3             | 52.4              | 2.0          | EAR99 |
| <a href="#">MFBC-00009M</a>  | 40.4             | 46.1            | 46.9            | 54.1     | 62.4             | 64.7             | 54.1              | 2.3          | EAR99 |
| <a href="#">MFBC-00019M</a>  | 53.6             | 57.3            | 59.1            | 67.9     | 78.1             | 83.3             | 86.6              | 2.7          | EAR99 |
| <a href="#">MFBC-00020M</a>  | 63.1             | 76.5            | 78.5            | 90.0     | 103.2            | 110.0            | 90.0              | 3.9          | EAR99 |

**LIMITERS**

| Part Number                              | Band (GHz) | Loss (dB) | Flat Leakage (dBm) | Peak Power CW (W) | Peak Power Pulsed (W) | P1dB (dBm) | ECCN  |
|------------------------------------------|------------|-----------|--------------------|-------------------|-----------------------|------------|-------|
| <a href="#">HLM-100001BH<sup>1</sup></a> | DC-10      | 1         | +10 @ 5 GHz        | 4                 | —                     | +10        | EAR99 |
| <a href="#">HLM-20BH<sup>1</sup></a>     | DC-20      | 1         | +15 @ 10 GHz       | 4                 | —                     | +15        | EAR99 |
| <a href="#">HLM-8011U<sup>1</sup></a>    | DC-30      | 0.8       | +7 @ 30 GHz        | 1                 | 4.5                   | +10        | EAR99 |
| <a href="#">HLM-40U<sup>1</sup></a>      | DC-40      | 1         | +16 @ 20 GHz       | 4                 | 20                    | +15        | EAR99 |
| <a href="#">HLM-40ABH<sup>1</sup></a>    | DC-40      | 0.7       | +9 @ 30 GHz        | 2                 | —                     | +10        | EAR99 |
| <a href="#">HLM-67ABH<sup>1</sup></a>    | DC-67      | 1.1       | +8 @ 40 GHz        | 1                 | —                     | +8         | EAR99 |

<sup>1</sup>Power ratings are dependent on frequency, temperature, and pulse conditions**\*New Release since 6/2026**

All electrical specifications given are typical values.

## IQ MIXERS

| Part Number                               | RF/LO (GHz) | IF (GHz) | Conversion Loss (dB) | Image Rej (dBc) | L-R Isolation (dB) | ECCN  |
|-------------------------------------------|-------------|----------|----------------------|-----------------|--------------------|-------|
| <a href="#">MMIQ-0205HXA</a>              | 1.75-5      | DC-2     | 8                    | 33              | 61                 | EAR99 |
| MMIQ-0218(L/H)XPC                         | 2-18        | DC-3     | 8/7.5                | 27/35           | 58/53              | EAR99 |
| MMIQ-0416(L/H)S                           | 4-16        | DC-6     | 8/9                  | 28/29           | 58/59              | EAR99 |
| MMIQ-0520(L/H)S                           | 5-20        | DC-6     | 9                    | 35              | 46                 | EAR99 |
| MMIQ-0626(L/H)S                           | 6-26        | DC-6     | 9                    | 35              | 41                 | EAR99 |
| <a href="#">MMIQ-1037H</a>                | 10-37       | DC-12    | 9                    | 25              | 47                 | EAR99 |
| MMIQ-1040(L/S)S                           | 10-40       | DC-12    | 9                    | 25              | 47/44              | EAR99 |
| MMIQ-1865(L/H/S)UB                        | 18-65       | DC-23    | 8/8/9                | 35              | 49/48/50           | EAR99 |
| <a href="#">MMIQ-4067LU</a>               | 40-67       | DC-20    | 9                    | 35              | 33                 | EAR99 |
| MMIQ-40100(L/H)M                          | 40-100      | DC-20    | 10                   | 30              | see datasheet      | EAR99 |
| <a href="#">MMIQ-30120HM</a> <sup>1</sup> | 30-120      | DC-30    | 8.5                  | 27              | 40                 | EAR99 |

<sup>1</sup>Differential IF IQ Mixer

## MIXERS, Double Balanced

| Part Number                                | RF/LO (GHz)   | IF (GHz) | Conversion Loss (dB) | IIP3 (dBm)    | LO Drive (dBm) | ECCN          |
|--------------------------------------------|---------------|----------|----------------------|---------------|----------------|---------------|
| <a href="#">MM1-0115HS</a>                 | 1-15          | DC-2.5   | 7.5                  | +24           | +17            | EAR99         |
| MM1-0212(L/H/S)S                           | 2-12          | DC-3     | 8/8.5/8.5            | +14/+23/+26   | +9/+15/+20     | EAR99         |
| MM1-0222(L/H)S                             | 2-22          | DC-3.5   | 7                    | +13/+23       | +9/+15         | EAR99         |
| MM1-0312(H/S)S                             | 3-12          | DC-4.5   | 7.5                  | +23/+26       | +15/+20        | EAR99         |
| ◆ <a href="#">MM1-0320LBH</a> <sup>*</sup> | 3-20          | DC-4     | 7                    | +8.5          | +7             | EAR99         |
| MM1-0320(L/H)S                             | 3-20          | DC-4     | 8                    | +10/+20       | +7/+15         | EAR99         |
| MM1-0330(H/T)S                             | 3-30          | DC-5     | 7/9                  | +21/+32       | +19/+23        | EAR99         |
| <a href="#">MM1-0424SS</a>                 | 4.5-24        | DC-4     | 8                    | +25           | +20            | EAR99         |
| MM1-0626(H/S)S                             | 6-26.5        | DC-9     | 7.5/8                | +21/+25       | +15/+20        | EAR99         |
| MM1-0832(L/H)S                             | 8-32          | DC-12    | 8/7.6                | +14/+23       | +9/+15         | EAR99         |
| MM1-1044(L/H)S                             | 10-44         | DC-14    | 7.6                  | +13/+22       | +9/+15         | EAR99         |
| <a href="#">MM1-1140HS</a>                 | 11-40         | DC-12    | 8                    | +21           | +15            | EAR99         |
| <a href="#">MM1-1240SS</a>                 | 12-40         | DC-12    | 8                    | +25           | +20            | EAR99         |
| MM1-1467(L/H)S                             | 14-67         | DC-21    | 7                    | +12/+17.5     | +11/+15        | EAR99         |
| MM1-1850(H/S)S                             | 18-50         | DC-20    | 8/8.5                | +21/+25       | +15/+20        | EAR99         |
| MM1-1857(L/H)S                             | 18-57         | DC-21    | 8/7.5                | +13/+20       | +9/+13         | EAR99         |
| <a href="#">MM1-2567LS</a>                 | 25-67         | DC-30    | 9                    | +9            | +13            | EAR99         |
| ◆ <a href="#">MM1-1886(L/H*)M</a>          | 18-86         | DC-20    | 8.5                  | +13.5/+18.5   | +14/+16        | EAR99         |
| <a href="#">MM1-30100LM</a>                | 30-100        | DC-20    | 8.5                  | see datasheet | +14            | EAR99         |
| <a href="#">MMH-35120HM</a> <sup>1</sup>   | 35-120, 12-40 | DC-14    | 18                   | +7            | +15            | 3A001.b.7.c.1 |

<sup>1</sup>Harmonic Mixer**\*New Release since 6/2026**

All electrical specifications given are typical values.

**MIXERS, Triple Balanced**

| Part Number                              | RF/LO (GHz) | IF (GHz) | Conversion Loss (dB) | IIP3 (dBm) | LO Drive (dBm) | ECCN  |
|------------------------------------------|-------------|----------|----------------------|------------|----------------|-------|
| <a href="#">MT3A-0113HPA<sup>1</sup></a> | 1-13        | 0.5-8.5  | 9.5                  | +28        | +12            | EAR99 |
| <a href="#">MT3L-0113HS</a>              | 1.5-13      | 0.25-5   | 8.5                  | +31        | +20            | EAR99 |
| MT3H-0113(L/H)S                          | 1.5-13      | 0.8-8.5  | 8/8.5                | +20/+28    | +15/+20        | EAR99 |
| <a href="#">T3-18GLS</a>                 | 0.01-18     | 0.001-10 | 7.5                  | +25        | +20            | EAR99 |
| <a href="#">T3H-18GLS</a>                | 0.01-18     | 0.01-18  | 9.5                  | +30        | +20            | EAR99 |
| <a href="#">T3-20GLS</a>                 | 0.01-20     | 0.001-10 | 7.5                  | +30        | +20            | EAR99 |
| T3H-20G(L/I)S                            | 0.01-20     | 0.01-20  | 9.5                  | +30        | +20            | EAR99 |
| <a href="#">MM2-0530LBH</a>              | 5-30        | 2-20     | 7.5                  | +15        | +15            | EAR99 |
| <a href="#">MM2-0530HS</a>               | 5-30        | 2-20     | 9                    | +21        | +20            | EAR99 |
| <a href="#">T3-0838GLN</a>               | 8-38        | 0.01-10  | 8                    | +30        | +20            | EAR99 |
| <a href="#">T3-1040GLN</a>               | 10-40       | 1-18     | 8                    | +25        | +20            | EAR99 |
| <a href="#">MM2-0845HS</a>               | 8-45        | 1-15     | 8                    | +22        | +18            | EAR99 |

<sup>1</sup>Integrated low phase noise driver amplifier**PASSIVE MULTIPLIERS and NON LINEAR TRANSMISSION LINES**

| Part Number                    | Type           | Input (GHz) | Output (GHz) | Conversion Loss (dB) | 1F Supp (dBc) | 3F Supp (dBc) | ECCN          |
|--------------------------------|----------------|-------------|--------------|----------------------|---------------|---------------|---------------|
| <a href="#">MMD-0415HS</a>     | Doubler        | 2-7.5       | 4-15         | 11                   | 27            | 36            | EAR99         |
| <a href="#">MMD-0426LBH</a>    | Doubler        | 2-13        | 4-26         | 12                   | 37            | 50            | EAR99         |
| MMD-1030(L/H)S                 | Doubler        | 5-15        | 10-30        | 12.5/11.5            | 38/41         | 46/51         | EAR99         |
| <a href="#">MMD-1030LBH</a>    | Doubler        | 5-15        | 10-30        | 12                   | 38            | 46            | EAR99         |
| <a href="#">MMD-1640LBH</a>    | Doubler        | 8-20        | 16-40        | 14                   | 42            | 52            | EAR99         |
| <a href="#">MMD-1648LS</a>     | Doubler        | 8-24        | 16-48        | 15                   | 44            | 69            | EAR99         |
| <a href="#">MMD-1250HU</a>     | Doubler        | 6-25        | 12-50        | 10                   | 32            | 40            | EAR99         |
| MMD-2060(L/H)U                 | Doubler        | 10-30       | 20-60        | 11/10.5              | 37/38         | 41/40         | EAR99         |
| <a href="#">MMD-2060LBH</a>    | Doubler        | 10-30       | 20-60        | 11                   | 36            | 42            | EAR99         |
| <a href="#">MMD-3567LU</a>     | Doubler        | 17.5-33.5   | 35-67        | 11                   | 38            | 44            | EAR99         |
| <a href="#">MMD-3567LBH</a>    | Doubler        | 17.5-33.5   | 35-67        | 12                   | 37            | 38            | EAR99         |
| <a href="#">MMD-3580LU-KW</a>  | Doubler        | 17.5-40     | 35-80        | 11                   | 38            | 44            | EAR99         |
| MMD-18100(L/H)M                | Doubler        | 9-50        | 18-100       | 12.5/12              | 24/25         | 33/35         | EAR99         |
| <a href="#">MMD-20100HM</a>    | Doubler        | 10-50       | 20-100       | 10                   | 24.5          | 33            | 3A001.b.7.b.1 |
| <a href="#">MMD-40120HM</a>    | Doubler        | 20-60       | 40-120       | 10                   | 30            | 40            | 3A001.b.7.b.1 |
| <a href="#">MMQ-40125HM</a>    | Quadrupler     | 10-31.25    | 40-125       | 20                   | 19            | 12            | 3A001.b.7.b.1 |
| <a href="#">NLTL-6273S</a>     | Comb Generator | 0.7-5       | 0.7-40       | —                    | —             | —             | EAR99         |
| <a href="#">NLTL-6275U/USW</a> | Comb Generator | 3-15        | 3-85         | —                    | —             | —             | EAR99         |

**ACTIVE MULTIPLIERS**

| Part Number              | Input (GHz) | Output (GHz) | Input (dBm) | Output (dBm) | ECCN  |
|--------------------------|-------------|--------------|-------------|--------------|-------|
| <a href="#">ADA-0416</a> | 2-8         | 4-16         | 0 to +6     | +16          | EAR99 |
| <a href="#">ADA-1030</a> | 5-15        | 10-30        | 0 to +6     | +16          | EAR99 |
| <a href="#">ADA-2052</a> | 10-26       | 20-52        | -6 to +2    | +16          | EAR99 |
| <a href="#">AQA-2156</a> | 5.25-14     | 21-56        | -2 to +6    | +20          | EAR99 |

**\*New Release since 6/2026**

All electrical specifications given are typical values.

**POWER DIVIDERS, High Isolation**

| Part Number              | Band (GHz) | Loss (dB) | Amplitude Balance (dB) | Isolation (dB) | ECCN  |
|--------------------------|------------|-----------|------------------------|----------------|-------|
| <a href="#">PBR-0003</a> | 0.0003-3   | 1.25      | ±0.4                   | 45             | EAR99 |
| <a href="#">PBR-0006</a> | 0.0003-6   | 1.5       | ±0.5                   | 40             | EAR99 |
| <a href="#">PBR-0012</a> | 0.0003-12  | 1.5       | ±0.6                   | 35             | EAR99 |

**POWER DIVIDERS, Wilkinson 1:2**

| Part Number                  | Band (GHz) | Loss (dB) | Amplitude Balance (dB) | Phase Balance (°) | Isolation (dB) | ECCN  |
|------------------------------|------------|-----------|------------------------|-------------------|----------------|-------|
| <a href="#">PD-0R413</a>     | 0.4-13.2   | 1         | ±0.05                  | ±1                | 24             | EAR99 |
| <a href="#">PD-0R426</a>     | 0.4-26     | 2         | ±0.05                  | ±2                | 24             | EAR99 |
| <a href="#">PD-0R510</a>     | 0.5-10     | 0.9       | ±0.1                   | ±1                | 22             | EAR99 |
| <a href="#">PD-0R618</a>     | 0.6-18     | 1         | ±0.05                  | ±1                | 22             | EAR99 |
| <a href="#">PD-0R636</a>     | 0.6-36     | 2         | ±0.1                   | ±3                | 22             | EAR99 |
| <a href="#">PD-0109</a>      | 1-9        | 0.75      | ±0.1                   | ±1                | 22             | EAR99 |
| <a href="#">PD-0126</a>      | 1-26       | 1         | ±0.1                   | ±3                | 20             | EAR99 |
| <a href="#">PD-0140</a>      | 1-40       | 1.5       | ±0.2                   | ±2                | 20             | EAR99 |
| <a href="#">PD-0150</a>      | 1-50       | 2         | ±0.25                  | ±3                | 20             | EAR99 |
| <a href="#">PD-0165</a>      | 1-65       | 5         | ±0.25                  | ±3                | 20             | EAR99 |
| <a href="#">PD-0218</a>      | 2-18       | 1         | ±0.2                   | ±2                | 22             | EAR99 |
| <a href="#">PD-0220</a>      | 2-20       | 1         | ±0.2                   | ±2                | 22             | EAR99 |
| <a href="#">MPD-0226BH</a>   | 2-26.5     | 1         | 0                      | 2.6               | 26             | EAR99 |
| <a href="#">PD-0426</a>      | 4-26.5     | 0.8       | ±0.2                   | ±2                | 18             | EAR99 |
| <a href="#">PD-0440</a>      | 4-40       | 1         | ±0.2                   | ±3                | 18             | EAR99 |
| <a href="#">PD-0450</a>      | 4-50       | 1.2       | ±0.5                   | ±5                | 18             | EAR99 |
| <a href="#">PD-0465</a>      | 4-65       | 2         | ±0.5                   | ±5                | 18             | EAR99 |
| <a href="#">MPDW-10110M2</a> | 10-110     | 3         | ±0.25                  | ±3                | 22             | EAR99 |

**POWER DIVIDERS, Wilkinson 1:3**

| Part Number               | Band (GHz) | Loss (dB) | Amplitude Balance (dB) | Phase Balance (°) | Isolation (dB) | ECCN  |
|---------------------------|------------|-----------|------------------------|-------------------|----------------|-------|
| <a href="#">PD3-0R412</a> | 0.4-12     | 1.5       | ±0.1                   | ±2                | 23             | EAR99 |
| <a href="#">PD3-0R616</a> | 0.6-16     | 1.5       | ±0.1                   | ±2                | 24             | EAR99 |
| <a href="#">PD3-0126</a>  | 1.5-26.5   | 1.5       | ±0.3                   | ±4                | 24             | EAR99 |

**\*New Release since 6/2026**

All electrical specifications given are typical values.

## POWER DIVIDERS, Wilkinson 1:4

| Part Number               | Band (GHz) | Loss (dB) | Amplitude Balance (dB) | Phase Balance (°) | Isolation (dB) | ECCN  |
|---------------------------|------------|-----------|------------------------|-------------------|----------------|-------|
| <a href="#">PD4-0R518</a> | 0.5-18     | 1.5       | ±0.25                  | ±3                | 20             | EAR99 |
| <a href="#">PD4-0R526</a> | 0.5-26.5   | 2.5       | ±0.25                  | ±3                | 19             | EAR99 |
| <a href="#">PD4-0R532</a> | 0.5-32     | 2.5       | ±0.3                   | ±4                | 19             | EAR99 |
| <a href="#">PD4-0120</a>  | 1-20       | 1.5       | ±0.25                  | ±3                | 20             | EAR99 |
| <a href="#">PD4-0126</a>  | 1-26.5     | 1.5       | ±0.3                   | ±3                | 20             | EAR99 |
| <a href="#">PD4-0140</a>  | 1-40       | 2.5       | ±0.4                   | ±4                | 19             | EAR99 |
| <a href="#">PD4-0150</a>  | 1-50       | 4         | ±0.5                   | ±5                | 20             | EAR99 |
| <a href="#">PD4-0218</a>  | 2-18       | 1.2       | ±0.2                   | ±2                | 20             | EAR99 |

## POWER DIVIDERS, Resistive 1:2

| Part Number                  | Band (GHz) | Loss (dB) | Amplitude Balance (dB) | Phase Balance (°) | ECCN  |
|------------------------------|------------|-----------|------------------------|-------------------|-------|
| <a href="#">PD-0010</a>      | DC-10      | 0.25      | ±0.1                   | ±1                | EAR99 |
| <a href="#">PD-0020</a>      | DC-20      | 0.5       | ±0.2                   | ±2                | EAR99 |
| <a href="#">PD-0030</a>      | DC-30      | 0.5       | ±0.25                  | ±2                | EAR99 |
| <a href="#">PD-0040</a>      | DC-40      | 0.75      | ±0.25                  | ±2                | EAR99 |
| <a href="#">MPDR-00110M2</a> | DC-110     | 1.5       | ±0.25                  | ±7.5              | EAR99 |

## SAPPHIRE LOADED CAVITY OSCILLATORS

| Part Number               | Band (GHz) | Output Power (dBm) | Phase Noise (dBc/Hz) |        |         |       | ECCN       |
|---------------------------|------------|--------------------|----------------------|--------|---------|-------|------------|
|                           |            |                    | 1 kHz                | 10 kHz | 100 kHz | 1 MHz |            |
| SLCO-0800000 <sup>1</sup> | 8.00       | 12                 | -132                 | -155   | -167    | -171  | 3A001.b.10 |
| SLCO-1000000 <sup>1</sup> | 10.00      | 12                 | -125                 | -150   | -165    | -170  | 3A001.b.10 |
| SLCO-1024000 <sup>*</sup> | 10.24      | 12                 | -125                 | -150   | -165    | -170  | 3A001.b.10 |

<sup>1</sup>NPI

## TERMINATIONS

| Part Number                     | Band (GHz) | Impedance (Ω) | Return Loss (dB) | ECCN  |
|---------------------------------|------------|---------------|------------------|-------|
| T( <a href="#">M/E</a> )50-27   | DC-27      | 50            | 32               | EAR99 |
| T( <a href="#">M/E</a> )50-40   | DC-40      | 50            | 35               | EAR99 |
| T( <a href="#">M/E</a> )50-50   | DC-50      | 50            | 31               | EAR99 |
| T( <a href="#">M/E</a> )50-67   | DC-67      | 50            | 36               | EAR99 |
| T( <a href="#">M/E</a> )50-110M | DC-110     | 50            | 15               | EAR99 |

## THUMBWHEEL

| Part Number          | Description                                                    | ECCN  |
|----------------------|----------------------------------------------------------------|-------|
| <a href="#">TW-1</a> | quick, secure, wrenchless connection for SMA, 2.92mm and 2.4mm | EAR99 |

**\*New Release since 6/2026**

All electrical specifications given are typical values.

# WAVEGUIDE

## COUPLERS

| Part Number                | Band (GHz) | Coupling | Directivity TYP. (dB) | Insertion Loss (dB) | Return Loss (dB) | Waveguide Band | Flange   | ECCN  |
|----------------------------|------------|----------|-----------------------|---------------------|------------------|----------------|----------|-------|
| <a href="#">C10-2800WG</a> | 26.5-40    | 10       | 40                    | 0.5                 | 30               | WR-28          | UG-599/U | EAR99 |
| <a href="#">C10-2200WG</a> | 33-50      | 10       | 40                    | 0.6                 | 30               | WR-22          | UG-383/U | EAR99 |
| <a href="#">C10-1900WG</a> | 40-60      | 10       | 40                    | 0.7                 | 30               | WR-19          | UG-383/U | EAR99 |
| <a href="#">C10-1500WG</a> | 50-75      | 10       | 40                    | 1.2                 | 30               | WR-15          | UG-385/U | EAR99 |
| <a href="#">C20-1500WG</a> | 50-75      | 19       | 41                    | 0.9                 | 39               | WR-15          | UG-385/U | EAR99 |
| <a href="#">C10-1200WG</a> | 60-90      | 10       | 40                    | 1.1                 | 30               | WR-12          | UG-387/U | EAR99 |
| <a href="#">C20-1200WG</a> | 60-90      | 19       | 38                    | 0.8                 | 39               | WR-12          | UG-387/U | EAR99 |
| <a href="#">C10-1000WG</a> | 75-110     | 10       | 40                    | 1.25                | 30               | WR-10          | UG-387/U | EAR99 |
| <a href="#">C20-1000WG</a> | 75-110     | 20       | 36                    | 1.15                | 35               | WR-10          | UG-387/U | EAR99 |

## DETECTORS

| Part Number                  | Band (GHz) | Sensitivity (V/mW) | Flatness (dB) | Operating range (dBm) | Flange   | ECCN  |
|------------------------------|------------|--------------------|---------------|-----------------------|----------|-------|
| <a href="#">DET-28PP00WG</a> | 26.5-40    | 1800               | +/- 1.5       | 15 to -40             | UG-599/U | EAR99 |
| <a href="#">DET-22PP00WG</a> | 33-50      | 1500               | +/- 1.5       | 15 to -40             | UG-383/U | EAR99 |
| <a href="#">DET-19PP00WG</a> | 40-60      | 1500               | +/- 2.0       | 15 to -40             | UG-383/U | EAR99 |
| <a href="#">DET-15PP00WG</a> | 50-75      | 1200               | +/- 1.5       | 15 to -40             | UG-385/U | EAR99 |
| <a href="#">DET-12PP00WG</a> | 60-90      | 1000               | +/- 1.5       | 15 to -40             | UG-387/U | EAR99 |
| <a href="#">DET-10PP00WG</a> | 75-110     | 800                | +/- 1.5       | 15 to -40             | UG-387/U | EAR99 |
| <a href="#">DET-08PP00WG</a> | 90-140     | 700                | +/- 1.7       | 15 to -40             | UG-387/U | EAR99 |

## ISOLATORS

| Part Number                   | Band (GHz) | Isolation (dB) | Insertion Loss (dB) | Return Loss (dB) | Waveguide Band | Flange   | ECCN  |
|-------------------------------|------------|----------------|---------------------|------------------|----------------|----------|-------|
| <a href="#">ISO27-28F00WG</a> | 26.5-40    | 27             | 1                   | 17.7             | WR-28          | UG-599/U | EAR99 |
| <a href="#">ISO27-22F00WG</a> | 33-50      | 27             | 1.3                 | 17.7             | WR-22          | UG-383/U | EAR99 |
| <a href="#">ISO27-19F00WG</a> | 40-60      | 27             | 1.5                 | 17.7             | WR-19          | UG-383/U | EAR99 |
| <a href="#">ISO27-15F00WG</a> | 50-75      | 27             | 1.6                 | 15.5             | WR-15          | UG-385/U | EAR99 |
| <a href="#">ISO27-12F00WG</a> | 60-90      | 27             | 1.7                 | 15.5             | WR-12          | UG-387/U | EAR99 |
| <a href="#">ISO27-10F00WG</a> | 75-110     | 27             | 2                   | 15.5             | WR-10          | UG-387/U | EAR99 |

## LEVEL SET ATTENUATORS

| Part Number                    | Band (GHz) | Attenuation Range (dB) | Return Loss (dB) | Flange   | ECCN  |
|--------------------------------|------------|------------------------|------------------|----------|-------|
| <a href="#">ATN35-15LS00WG</a> | 50-75      | 0-35                   | 15               | UG-385/U | EAR99 |
| <a href="#">ATN35-12LS00WG</a> | 60-90      | 0-35                   | 15               | UG-387/U | EAR99 |
| <a href="#">ATN35-10LS00WG</a> | 75-110     | 0-35                   | 15               | UG-387/U | EAR99 |

**\*New Release since 6/2026**

All electrical specifications given are typical values.

## FIXED ATTENUATORS

| Part Number                                | Band (GHz) | Attenuation (dB) | Waveguide Band | Flange   | ECCN  |
|--------------------------------------------|------------|------------------|----------------|----------|-------|
| <a href="#">ATN00-15FH00WG<sup>1</sup></a> | 50-75      | 0                | WR-15          | UG-385/U | EAR99 |
| <a href="#">ATN00-15FL00WG<sup>1</sup></a> | 50-75      | 0                | WR-15          | UG-385/U | EAR99 |
| <a href="#">ATN03-15FH00WG<sup>1</sup></a> | 50-75      | 3                | WR-15          | UG-385/U | EAR99 |
| <a href="#">ATN03-15FL00WG<sup>1</sup></a> | 50-75      | 3                | WR-15          | UG-385/U | EAR99 |
| <a href="#">ATN06-15FH00WG<sup>1</sup></a> | 50-75      | 6                | WR-15          | UG-385/U | EAR99 |
| <a href="#">ATN06-15FL00WG<sup>1</sup></a> | 50-75      | 6                | WR-15          | UG-385/U | EAR99 |
| <a href="#">ATN10-15FH00WG<sup>1</sup></a> | 50-75      | 10               | WR-15          | UG-385/U | EAR99 |
| <a href="#">ATN10-15FL00WG<sup>1</sup></a> | 50-75      | 10               | WR-15          | UG-385/U | EAR99 |
| <a href="#">ATN15-15FH00WG<sup>1</sup></a> | 50-75      | 15               | WR-15          | UG-385/U | EAR99 |
| <a href="#">ATN15-15FL00WG<sup>1</sup></a> | 50-75      | 15               | WR-15          | UG-385/U | EAR99 |
| <a href="#">ATN20-15FH00WG<sup>1</sup></a> | 50-75      | 20               | WR-15          | UG-385/U | EAR99 |
| <a href="#">ATN20-15FL00WG<sup>1</sup></a> | 50-75      | 20               | WR-15          | UG-385/U | EAR99 |
| <a href="#">ATN25-15FH00WG<sup>1</sup></a> | 50-75      | 25               | WR-15          | UG-385/U | EAR99 |
| <a href="#">ATN25-15FL00WG<sup>1</sup></a> | 50-75      | 25               | WR-15          | UG-385/U | EAR99 |
| <a href="#">ATN30-15FH00WG<sup>1</sup></a> | 50-75      | 30               | WR-15          | UG-385/U | EAR99 |
| <a href="#">ATN30-15FL00WG<sup>1</sup></a> | 50-75      | 30               | WR-15          | UG-385/U | EAR99 |
| <a href="#">ATN00-12FH00WG<sup>1</sup></a> | 60-90      | 0                | WR-12          | UG-387/U | EAR99 |
| <a href="#">ATN00-12FL00WG<sup>1</sup></a> | 60-90      | 0                | WR-12          | UG-387/U | EAR99 |
| <a href="#">ATN03-12FH00WG<sup>1</sup></a> | 60-90      | 3                | WR-12          | UG-387/U | EAR99 |
| <a href="#">ATN03-12FL00WG<sup>1</sup></a> | 60-90      | 3                | WR-12          | UG-387/U | EAR99 |
| <a href="#">ATN06-12FH00WG<sup>1</sup></a> | 60-90      | 6                | WR-12          | UG-387/U | EAR99 |
| <a href="#">ATN06-12FL00WG<sup>1</sup></a> | 60-90      | 6                | WR-12          | UG-387/U | EAR99 |
| <a href="#">ATN10-12FH00WG<sup>1</sup></a> | 60-90      | 10               | WR-12          | UG-387/U | EAR99 |
| <a href="#">ATN10-12FL00WG<sup>1</sup></a> | 60-90      | 10               | WR-12          | UG-387/U | EAR99 |
| <a href="#">ATN15-12FH00WG<sup>1</sup></a> | 60-90      | 15               | WR-12          | UG-387/U | EAR99 |
| <a href="#">ATN15-12FL00WG<sup>1</sup></a> | 60-90      | 15               | WR-12          | UG-387/U | EAR99 |
| <a href="#">ATN20-12FH00WG<sup>1</sup></a> | 60-90      | 20               | WR-12          | UG-387/U | EAR99 |
| <a href="#">ATN20-12FL00WG<sup>1</sup></a> | 60-90      | 20               | WR-12          | UG-387/U | EAR99 |
| <a href="#">ATN25-12FH00WG<sup>1</sup></a> | 60-90      | 25               | WR-12          | UG-387/U | EAR99 |
| <a href="#">ATN25-12FL00WG<sup>1</sup></a> | 60-90      | 25               | WR-12          | UG-387/U | EAR99 |
| <a href="#">ATN30-12FH00WG<sup>1</sup></a> | 60-90      | 30               | WR-12          | UG-387/U | EAR99 |
| <a href="#">ATN30-12FL00WG<sup>1</sup></a> | 60-90      | 30               | WR-12          | UG-387/U | EAR99 |
| <a href="#">ATN00-10FH00WG<sup>1</sup></a> | 75-110     | 0                | WR-10          | UG-387/U | EAR99 |
| <a href="#">ATN00-10FL00WG<sup>1</sup></a> | 75-110     | 0                | WR-10          | UG-387/U | EAR99 |
| <a href="#">ATN03-10FH00WG<sup>1</sup></a> | 75-110     | 3                | WR-10          | UG-387/U | EAR99 |
| <a href="#">ATN03-10FL00WG<sup>1</sup></a> | 75-110     | 3                | WR-10          | UG-387/U | EAR99 |
| <a href="#">ATN06-10FH00WG<sup>1</sup></a> | 75-110     | 6                | WR-10          | UG-387/U | EAR99 |
| <a href="#">ATN06-10FL00WG<sup>1</sup></a> | 75-110     | 6                | WR-10          | UG-387/U | EAR99 |
| <a href="#">ATN10-10FH00WG<sup>1</sup></a> | 75-110     | 10               | WR-10          | UG-387/U | EAR99 |
| <a href="#">ATN10-10FL00WG<sup>1</sup></a> | 75-110     | 10               | WR-10          | UG-387/U | EAR99 |
| <a href="#">ATN15-10FH00WG<sup>1</sup></a> | 75-110     | 15               | WR-10          | UG-387/U | EAR99 |
| <a href="#">ATN15-10FL00WG<sup>1</sup></a> | 75-110     | 15               | WR-10          | UG-387/U | EAR99 |

<sup>1</sup>Low power handles 300 mW, high power handles 3 W with fan cooling

**\*New Release since 6/2026**

All electrical specifications given are typical values.

**FIXED ATTENUATORS (cont.)**

| Part Number                                | Band (GHz) | Attenuation (dB) | Waveguide Band | Flange   | ECCN  |
|--------------------------------------------|------------|------------------|----------------|----------|-------|
| <a href="#">ATN20-10FH00WG<sup>1</sup></a> | 75-110     | 20               | WR-10          | UG-387/U | EAR99 |
| <a href="#">ATN20-10FL00WG<sup>1</sup></a> | 75-110     | 20               | WR-10          | UG-387/U | EAR99 |
| <a href="#">ATN25-10FH00WG<sup>1</sup></a> | 75-110     | 25               | WR-10          | UG-387/U | EAR99 |
| <a href="#">ATN25-10FL00WG<sup>1</sup></a> | 75-110     | 25               | WR-10          | UG-387/U | EAR99 |
| <a href="#">ATN30-10FH00WG<sup>1</sup></a> | 75-110     | 30               | WR-10          | UG-387/U | EAR99 |
| <a href="#">ATN30-10FL00WG<sup>1</sup></a> | 75-110     | 30               | WR-10          | UG-387/U | EAR99 |

<sup>1</sup>Low power handles 300 mW, high power handles 3 W with fan cooling

**MIXERS**

| Part Number                 | Band (GHz) | IF (GHz) | Conversion Loss (dB) | L-R Isolation (dB) | ECCN  |
|-----------------------------|------------|----------|----------------------|--------------------|-------|
| <a href="#">MXDB-1500WG</a> | 50-75      | DC-25    | 7.2                  | 35                 | EAR99 |
| <a href="#">MXDB-1200WG</a> | 60-90      | DC-30    | 7.5                  | 34                 | EAR99 |
| <a href="#">MXDB-1000WG</a> | 75-110     | DC-35    | 9.0                  | 28                 | EAR99 |

**TERMINATIONS**

| Part Number                  | Band (GHz) | Return Loss (dB) | Power Handling (W)              | Waveguide Band | Flange   | ECCN  |
|------------------------------|------------|------------------|---------------------------------|----------------|----------|-------|
| <a href="#">TW50-28H00WG</a> | 26.5-40    | 30               | 7                               | WR-28          | UG-599/U | EAR99 |
| <a href="#">TW50-28L00WG</a> | 26.5-40    | 32               | 5                               | WR-28          | UG-599/U | EAR99 |
| <a href="#">TW50-22H00WG</a> | 33-50      | 30               | 5                               | WR-22          | UG-383/U | EAR99 |
| <a href="#">TW50-22L00WG</a> | 33-50      | 32               | 4                               | WR-22          | UG-383/U | EAR99 |
| <a href="#">TW50-19H00WG</a> | 40-60      | 30               | 3                               | WR-19          | UG-383/U | EAR99 |
| <a href="#">TW50-19L00WG</a> | 40-60      | 32               | 2                               | WR-19          | UG-383/U | EAR99 |
| <a href="#">TW50-15H00WG</a> | 50-75      | 28               | 2                               | WR-15          | UG-385/U | EAR99 |
| <a href="#">TW50-15L00WG</a> | 50-75      | 30               | 1                               | WR-15          | UG-385/U | EAR99 |
| <a href="#">TW50-12H00WG</a> | 60-90      | 28               | 1.8                             | WR-12          | UG-387/U | EAR99 |
| <a href="#">TW50-12L00WG</a> | 60-90      | 30               | 0.9                             | WR-12          | UG-387/U | EAR99 |
| <a href="#">TW50-10H00WG</a> | 75-110     | 28               | 1.2                             | WR-10          | UG-387/U | EAR99 |
| <a href="#">TW50-10L00WG</a> | 75-110     | 30               | 0.6                             | WR-10          | UG-387/U | EAR99 |
| <a href="#">TW50-08H00WG</a> | 90-140     | 24               | <a href="#">contact support</a> | WR-08          | UG-387/U | EAR99 |
| <a href="#">TW50-08L00WG</a> | 90-140     | 26               | <a href="#">contact support</a> | WR-08          | UG-387/U | EAR99 |

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## WAVEGUIDE TWISTS

| Part Number                  | Band (GHz) | Twist Angle | Flange   | ECCN  |
|------------------------------|------------|-------------|----------|-------|
| <a href="#">WT45-28L00WG</a> | 26.5-40    | 45°         | UG-599/U | EAR99 |
| <a href="#">WT45-28R00WG</a> | 26.5-40    | 45°         | UG-599/U | EAR99 |
| <a href="#">WT90-2800WG</a>  | 26.5-40    | 90°         | UG-599/U | EAR99 |
| <a href="#">WT45-22L00WG</a> | 33-50      | 45°         | UG-383/U | EAR99 |
| <a href="#">WT45-22R00WG</a> | 33-50      | 45°         | UG-383/U | EAR99 |
| <a href="#">WT90-2200WG</a>  | 33-50      | 90°         | UG-383/U | EAR99 |
| <a href="#">WT45-19L00WG</a> | 40-60      | 45°         | UG-383/U | EAR99 |
| <a href="#">WT45-19R00WG</a> | 40-60      | 45°         | UG-383/U | EAR99 |
| <a href="#">WT90-1900WG</a>  | 40-60      | 90°         | UG-383/U | EAR99 |
| <a href="#">WT45-15L00WG</a> | 50-75      | 45°         | UG-385/U | EAR99 |
| <a href="#">WT45-15R00WG</a> | 50-75      | 45°         | UG-385/U | EAR99 |
| <a href="#">WT90-1500WG</a>  | 50-75      | 90°         | UG-385/U | EAR99 |
| <a href="#">WT45-12L00WG</a> | 60-90      | 45°         | UG-387/U | EAR99 |
| <a href="#">WT45-12R00WG</a> | 60-90      | 45°         | UG-387/U | EAR99 |
| <a href="#">WT90-1200WG</a>  | 60-90      | 90°         | UG-387/U | EAR99 |
| <a href="#">WT45-10L00WG</a> | 75-110     | 45°         | UG-387/U | EAR99 |
| <a href="#">WT45-10R00WG</a> | 75-110     | 45°         | UG-387/U | EAR99 |
| <a href="#">WT90-1000WG</a>  | 75-110     | 90°         | UG-387/U | EAR99 |
| <a href="#">WT45-08L00WG</a> | 90-140     | 45°         | UG-387/U | EAR99 |
| <a href="#">WT45-08R00WG</a> | 90-140     | 45°         | UG-387/U | EAR99 |
| <a href="#">WT90-0800WG</a>  | 90-140     | 90°         | UG-387/U | EAR99 |
| <a href="#">WT45-06L00WG</a> | 110-170    | 45°         | UG-387/U | EAR99 |
| <a href="#">WT45-06R00WG</a> | 110-170    | 45°         | UG-387/U | EAR99 |
| <a href="#">WT90-0600WG</a>  | 110-170    | 90°         | UG-387/U | EAR99 |

**\*New Release since 6/2026**

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## WAVEGUIDE BENDS

| Part Number                 | Band (GHz) | Bend Angle | Flange   | ECCN  |
|-----------------------------|------------|------------|----------|-------|
| <a href="#">WE45-2800WG</a> | 26.5-40    | 45°        | UG-599/U | EAR99 |
| <a href="#">WE90-2800WG</a> | 26.5-40    | 90°        | UG-599/U | EAR99 |
| <a href="#">WH45-2800WG</a> | 26.5-40    | 45°        | UG-599/U | EAR99 |
| <a href="#">WH90-2800WG</a> | 26.5-40    | 90°        | UG-599/U | EAR99 |
| <a href="#">WE45-2200WG</a> | 33-50      | 45°        | UG-383/U | EAR99 |
| <a href="#">WE90-2200WG</a> | 33-50      | 90°        | UG-383/U | EAR99 |
| <a href="#">WH45-2200WG</a> | 33-50      | 45°        | UG-383/U | EAR99 |
| <a href="#">WH90-2200WG</a> | 33-50      | 90°        | UG-383/U | EAR99 |
| <a href="#">WE45-1900WG</a> | 40-60      | 45°        | UG-383/U | EAR99 |
| <a href="#">WE90-1900WG</a> | 40-60      | 90°        | UG-383/U | EAR99 |
| <a href="#">WH45-1900WG</a> | 40-60      | 45°        | UG-383/U | EAR99 |
| <a href="#">WH90-1900WG</a> | 40-60      | 90°        | UG-383/U | EAR99 |
| <a href="#">WE45-1500WG</a> | 50-75      | 45°        | UG-385/U | EAR99 |
| <a href="#">WE90-1500WG</a> | 50-75      | 90°        | UG-385/U | EAR99 |
| <a href="#">WH45-1500WG</a> | 50-75      | 45°        | UG-385/U | EAR99 |
| <a href="#">WH90-1500WG</a> | 50-75      | 90°        | UG-385/U | EAR99 |
| <a href="#">WE45-1200WG</a> | 60-90      | 45°        | UG-387/U | EAR99 |
| <a href="#">WE90-1200WG</a> | 60-90      | 90°        | UG-387/U | EAR99 |
| <a href="#">WH45-1200WG</a> | 60-90      | 45°        | UG-387/U | EAR99 |
| <a href="#">WH90-1200WG</a> | 60-90      | 90°        | UG-387/U | EAR99 |
| <a href="#">WE45-1000WG</a> | 75-110     | 45°        | UG-387/U | EAR99 |
| <a href="#">WE90-1000WG</a> | 75-110     | 90°        | UG-387/U | EAR99 |
| <a href="#">WH45-1000WG</a> | 75-110     | 45°        | UG-387/U | EAR99 |
| <a href="#">WH90-1000WG</a> | 75-110     | 90°        | UG-387/U | EAR99 |
| <a href="#">WE45-0800WG</a> | 90-140     | 45°        | UG-387/U | EAR99 |
| <a href="#">WE90-0800WG</a> | 90-140     | 90°        | UG-387/U | EAR99 |
| <a href="#">WH45-0800WG</a> | 90-140     | 45°        | UG-387/U | EAR99 |
| <a href="#">WH90-0800WG</a> | 90-140     | 90°        | UG-387/U | EAR99 |
| <a href="#">WE45-0600WG</a> | 110-170    | 45°        | UG-387/U | EAR99 |
| <a href="#">WE90-0600WG</a> | 110-170    | 90°        | UG-387/U | EAR99 |
| <a href="#">WH45-0600WG</a> | 110-170    | 45°        | UG-387/U | EAR99 |
| <a href="#">WH90-0600WG</a> | 110-170    | 90°        | UG-387/U | EAR99 |

**\*New Release since 6/2026**

All electrical specifications given are typical values.

## WAVEGUIDE STRAIGHTS

| Part Number                  | Band (GHz) | Length (inch) | Flange   | ECCN  |
|------------------------------|------------|---------------|----------|-------|
| <a href="#">WS-2800100WG</a> | 26.5-40    | 1             | UG-599/U | EAR99 |
| <a href="#">WS-2800200WG</a> | 26.5-40    | 2             | UG-599/U | EAR99 |
| <a href="#">WS-2800300WG</a> | 26.5-40    | 3             | UG-599/U | EAR99 |
| <a href="#">WS-2800600WG</a> | 26.5-40    | 6             | UG-599/U | EAR99 |
| <a href="#">WS-2200100WG</a> | 33-50      | 1             | UG-383/U | EAR99 |
| <a href="#">WS-220010SWG</a> | 33-50      | 1             | UG-599/U | EAR99 |
| <a href="#">WS-2200200WG</a> | 33-50      | 2             | UG-383/U | EAR99 |
| <a href="#">WS-220020SWG</a> | 33-50      | 2             | UG-599/U | EAR99 |
| <a href="#">WS-2200300WG</a> | 33-50      | 3             | UG-383/U | EAR99 |
| <a href="#">WS-220030SWG</a> | 33-50      | 3             | UG-599/U | EAR99 |
| <a href="#">WS-2200600WG</a> | 33-50      | 6             | UG-383/U | EAR99 |
| <a href="#">WS-220060SWG</a> | 33-50      | 6             | UG-599/U | EAR99 |
| <a href="#">WS-1900100WG</a> | 40-60      | 1             | UG-383/U | EAR99 |
| <a href="#">WS-190010SWG</a> | 40-60      | 1             | UG-599/U | EAR99 |
| <a href="#">WS-1900200WG</a> | 40-60      | 2             | UG-383/U | EAR99 |
| <a href="#">WS-190020SWG</a> | 40-60      | 2             | UG-599/U | EAR99 |
| <a href="#">WS-1900300WG</a> | 40-60      | 3             | UG-383/U | EAR99 |
| <a href="#">WS-190030SWG</a> | 40-60      | 3             | UG-599/U | EAR99 |
| <a href="#">WS-1900600WG</a> | 40-60      | 6             | UG-383/U | EAR99 |
| <a href="#">WS-190060SWG</a> | 40-60      | 6             | UG-599/U | EAR99 |
| <a href="#">WS-1500100WG</a> | 50-75      | 1             | UG-385/U | EAR99 |
| <a href="#">WS-1500200WG</a> | 50-75      | 2             | UG-385/U | EAR99 |
| <a href="#">WS-1500300WG</a> | 50-75      | 3             | UG-385/U | EAR99 |
| <a href="#">WS-1500600WG</a> | 50-75      | 6             | UG-385/U | EAR99 |
| <a href="#">WS-1200100WG</a> | 60-90      | 1             | UG-387/U | EAR99 |
| <a href="#">WS-1200200WG</a> | 60-90      | 2             | UG-387/U | EAR99 |
| <a href="#">WS-1200300WG</a> | 60-90      | 3             | UG-387/U | EAR99 |
| <a href="#">WS-1200400WG</a> | 60-90      | 4             | UG-387/U | EAR99 |
| <a href="#">WS-1000100WG</a> | 75-110     | 1             | UG-387/U | EAR99 |
| <a href="#">WS-1000200WG</a> | 75-110     | 2             | UG-387/U | EAR99 |
| <a href="#">WS-1000300WG</a> | 75-110     | 3             | UG-387/U | EAR99 |
| <a href="#">WS-1000400WG</a> | 75-110     | 4             | UG-387/U | EAR99 |
| <a href="#">WS-0800100WG</a> | 90-140     | 1             | UG-387/U | EAR99 |
| <a href="#">WS-0800200WG</a> | 90-140     | 2             | UG-387/U | EAR99 |
| <a href="#">WS-0800300WG</a> | 90-140     | 3             | UG-387/U | EAR99 |
| <a href="#">WS-0800600WG</a> | 90-140     | 6             | UG-387/U | EAR99 |
| <a href="#">WS-0600100WG</a> | 110-170    | 1             | UG-387/U | EAR99 |
| <a href="#">WS-0600200WG</a> | 110-170    | 2             | UG-387/U | EAR99 |
| <a href="#">WS-0600300WG</a> | 110-170    | 3             | UG-387/U | EAR99 |
| <a href="#">WS-0600600WG</a> | 110-170    | 6             | UG-387/U | EAR99 |
| <a href="#">WS-0500100WG</a> | 140-220    | 1             | UG-387/U | EAR99 |
| <a href="#">WS-0500200WG</a> | 140-220    | 2             | UG-387/U | EAR99 |
| <a href="#">WS-0500300WG</a> | 140-220    | 3             | UG-387/U | EAR99 |
| <a href="#">WS-0500600WG</a> | 140-220    | 6             | UG-387/U | EAR99 |

## MARKI MICROWAVE PART NUMBER DECODER RING

Example: MM2-0530LS

Prefix=MM2, Identifier=0530, Diode=L, Package=S

### PREFIX

1 to 4 letters to identify the product category (**BAL**=balun, **PD**=power divider, etc)

- MMICs: M prefix (ex: **MBAL**, **MM1**, **MT3**)
- Modifiers: ex: **MT3A** Integrated LO Driver Amplifier

### IDENTIFIER

Most part numbers include a 4-digit string that identifies start/stop frequencies

(ex: **0416** = 4 to 16 GHz), with a few exceptions:

- Exceptions: amplifiers and NLTLS have the chip number instead of frequency band

### DIODE

Found on mixers, IQ mixers and multipliers. LO Drive is given at typical value.

- **L** diode:  $V_f=0.25V$ , LO Drive +5 to +15 dBm
- **H** diode:  $V_f=0.75V$ , LO Drive +11 to +20 dBm
- **S** diode:  $V_f=1.4V$ , LO Drive +17 to +23 dBm
- **T** diode:  $V_f=2V$ , LO Drive +20 to +27 dBm

### PACKAGES

- Bullet Housing: **BH**
- Sub-30GHz MMIC: typically **S**
- Amplifier packages: **PA**, **PC**, **PD**
- mmWave modules: **M**, **M2**, **U**, **UA**, **UB**, **UC**, etc
- Evaluation boards: **EVAL**, **EVB**

**CONNECTOR OPTIONS:** swaps are available upon request

- SMA
- 2.92 mm
- 2.4 mm
- 1.85 mm
- 1 mm

## WAVEGUIDE DECODER

Prefix: **ADA** = Active Doubler, **AQA** = Active Quadrupler

ADA-xxX00WG:

- Identifier: **xx** 2-digit string identifying the frequency band of operation (ex: 10 = WR-10)
- Identifier: **X** 1-digit string identifying : **F** = Full band **N**= Narrow band

Prefix: **ATN** identifies Attenuator product family

ATNXX-xxFX00WG:

- **XX** is a 2-digit string identifying the attenuation value
- Identifier: **xx** 2-digit string identifying the frequency band of operation. (ex: 10 = WR-10)
- **FX** identifies Fixed Attenuator, **X** = **L** for Low and **H** for High power; **LS** identifies Level Set Attenuator

Prefix: **C** identifies Coupler product family

CXX-xx00WG:

- **XX** identifier is coupling value (ex: 10, 20, 30 or 40 dB)
- Identifier: **xx** 2-digit string identifying the frequency band of operation (ex: 10 = WR-10)

Prefix: **DET** identifies Detector product family

DET-xxPP00WG:

- Identifier: **xx** 2-digit string identifying the frequency band of operation (ex: 10 = WR-10)
- Output: SMA Female
- **PP** Identifier is Polarity: Positive

Prefix: **ISO** identifies Isolator product family

ISO27-xxF00WG:

- **XX** identifies isolation value (ex: 27 dB)
- Identifier: **xx** 2-digit string identifying the frequency band of operation (ex: 10 = WR-10)

Prefix: **MX** identifies Mixer product family

MXDB-xx00WG:

- **DB** = Double Balanced
- Identifier: **xx** 2-digit string identifying the frequency band of operation (ex: 10 = WR-10)

Prefix: **TW** identifies Termination product family

TW50-xxX00WG:

- Identifier: **xx** 2-digit string identifying the frequency band of operation (ex: 10 = WR-10)
- Identifier **X** = **H** for high Power, **L** for Low Power
- Connector options: UG-387, UG-385, UG-383 and UG-599

Prefix: **WE** identifies Waveguide E plane bend product family

WEXX-xx00WG:

- Identifier: **XX** 2-digit string identifying bend degree (45 or 90 Degrees)
- Identifier: **xx** 2-digit string identifying the frequency band of operation (ex: 10 = WR-10)

Prefix: **WH** identifies Waveguide H plane bend product family

WHXX-xx00WG:

- Identifier: **XX** 2-digit string identifying bend degree (45 or 90 Degrees)
- Identifier: **xx** 2-digit string identifying the frequency band of operation (ex: 10 = WR-10)

Prefix: **WS** identifies Waveguide Straight product family

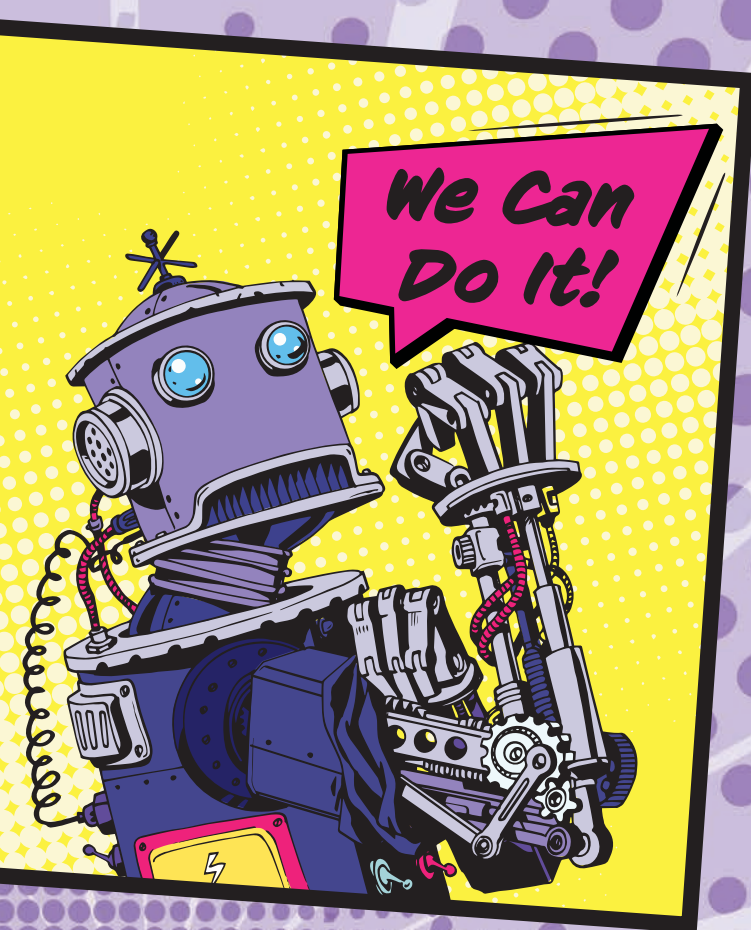
WS-xx00XXXWG:

- Identifier: **xx** 2-digit string identifying the frequency band of operation (ex: 10 = WR-10)
- Identifier: **XXX** 3-digit string identifying length in inches (ex: 3 inches=300)
- Identifier: **XXX** the last X in string will identify if the flange is Square (**S**) or Round (**R**)

Prefix: **WT** identifies Waveguide Twist product family

WTXX-xxX00WG:

- Identifier: **XX** 2-digit string identifying bend degree (45 or 90 Degrees)
- Identifier: **xx** 2-digit string identifying the frequency band of operation (ex: 10 = WR-10)
- Identifier: **X** 1-digit string identifying **L** for left and **R** for right hand twist



# No Die Left UNPACKAGED

## Leading-Edge Bullet Housing from Marki Microwave



Marki Microwave's new connectorized bullet housing for 2-port passive products is a cost-effective packaging solution delivering industry-leading performance from DC to 67 GHz. Designed to be fully customizable across Marki Microwave's extensive catalog of bare die products, including attenuators, equalizers, filters, multipliers, and limiters.

### *Features*

- DC-67 GHz Operation
- High-Performance, Low-Loss, Inline housing
- Supports 2-Port Products





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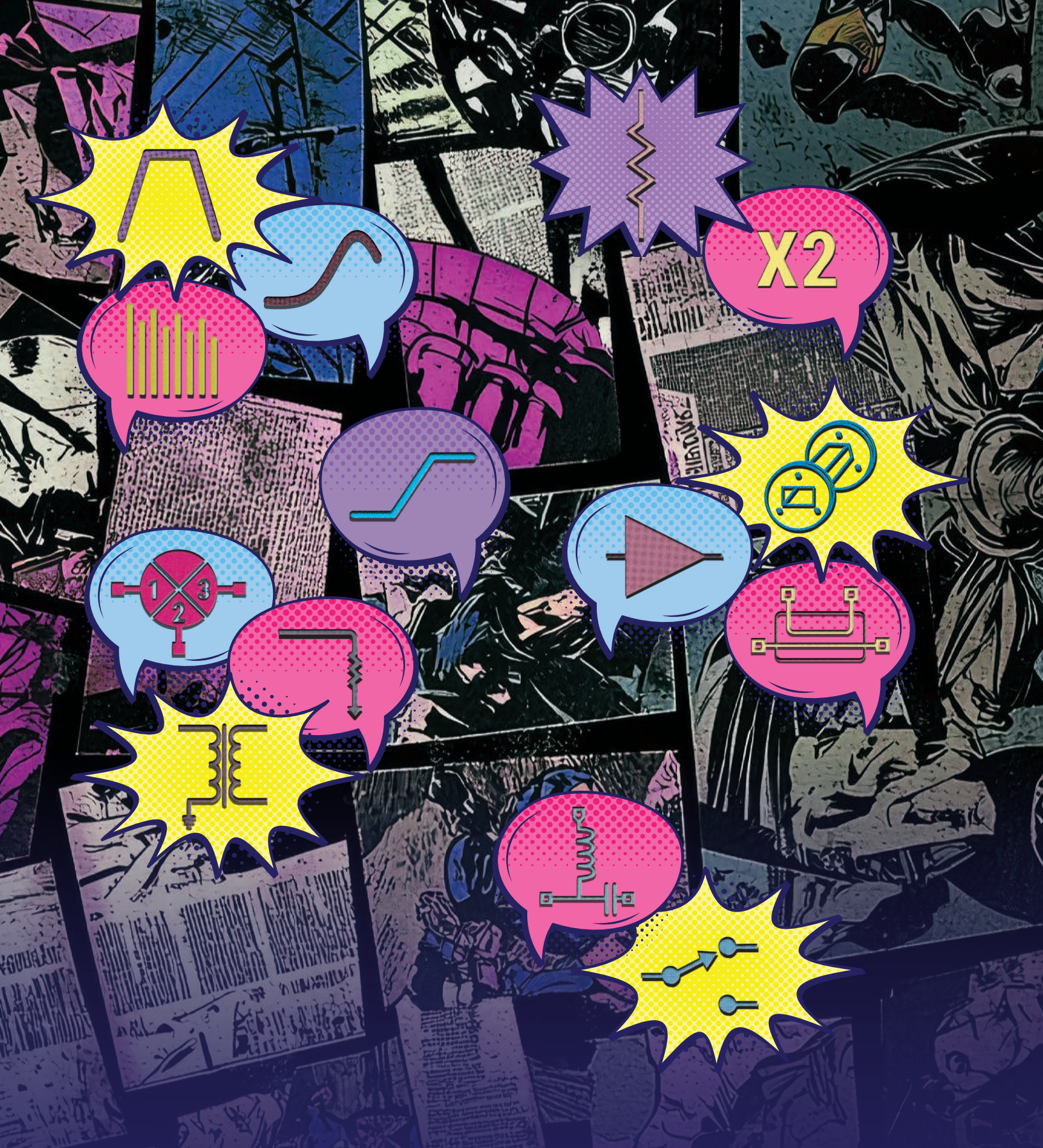
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