

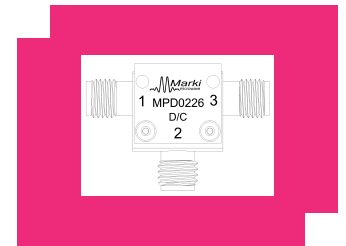
MPD-0226BH

2-26.5 GHz MMIC 2-way Wilkinson Power Divider/Combiner

DEVICE OVERVIEW

General Description

The MPD-0226BH is a 2-way Wilkinson power divider/combiner covering 2 to 26.5 GHz, designed using passive GaAs MMIC technology for consistent performance across a multi-octave frequency range. It delivers 1.0 dB excess insertion loss and 26 dB isolation between outputs across the full band. The device also maintains tight 0 dB amplitude balance and 2.6° phase balance with excellent match on all ports. The MPD-0226BH is packaged in an small form-factor high-performance connectorized housing for easy integration into test setups and system signal paths.



[Download s-parameters here](#)

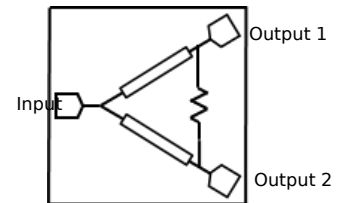
Features

- Multi-Octave Bandwidth, 2 to 26.5 GHz
- High Isolation, 26 dB Typical
- Amplitude Balance, 0 dB Typical
- Phase Balance, 2.6° Typical
- Low Excess Insertion Loss, 1.0 dB Typical
- RoHS Compliant

Applications

N/A

Functional Block Diagram



Part Ordering Options

Part Number	Description	Package	Connectors	Green Status	Product Lifecycle	Export Classification
MPD-0226BH	2-26.5 GHz MMIC 2-way Wilkinson Power Divider/Combiner	BH	-	REACH RoHS	Released	EAR99

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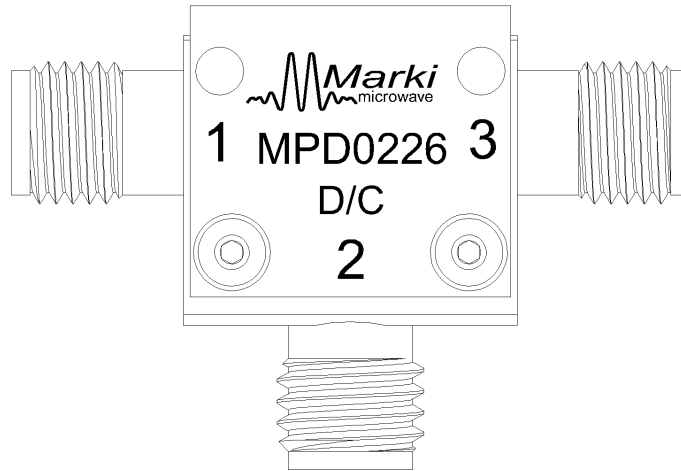
- **Device Overview**
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Revision History

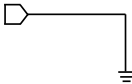
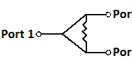
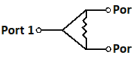
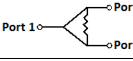
Revision Code	Revision Date	Comment
-	2026-02-18	Initial Release

Port Configuration and Functions

Port Diagram



Port Functions

Port	Function	Connector Type	Description	DC Equivalent Circuit
GND	Ground	-	BH package ground provided through metal housing and outer coax conductor.	
Port 1	Input/common	2.92F	The common port is DC short to the other two ports and open to ground.	
Port 2	Output 1	2.92F	The output 1 port is DC short to the other two ports and open to ground.	
Port 3	Output 2	2.92F	The output 2 port is DC short to the other two ports and open to ground.	

Specifications

Absolute Maximum Ratings

The Absolute Maximum Ratings indicate limits beyond which damage may occur to the device. If these limits are exceeded, the device may be inoperable or have a reduced lifetime.

Parameter	Maximum Rating	Unit
Minimum Storage Temperature	-65	°C
Maximum Storage Temperature	125	°C
Minimum Operating Temperature	-55	°C
Maximum Operating Temperature	100	°C
DC Current	60	mA
RF Power Handling as a Power Divider ¹	20	W
RF Power Handling as a Power Combiner ²	2	W

^[1] Based >40W Power handling test as a splitter without failure at room temperature at 2.5GHz with matched loads.

^[2] Based on 3W failure with out of phase signals at room temperature at 2.5GHz with matched loads.

Package Information

Parameter	Details	Rating
ESD	250 to < 500 Volts	HBM Class 1A
Weight	Package name: BH	12g
Dimensions	-	29.01 x 19.84 mm

MPD-0226BH

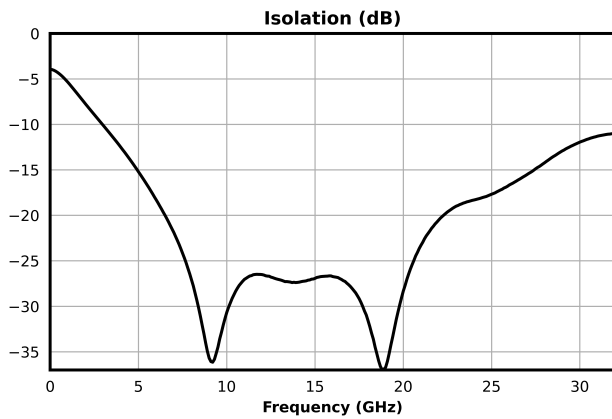
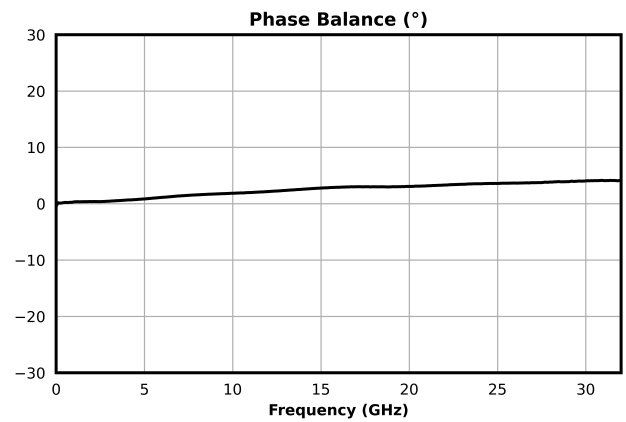
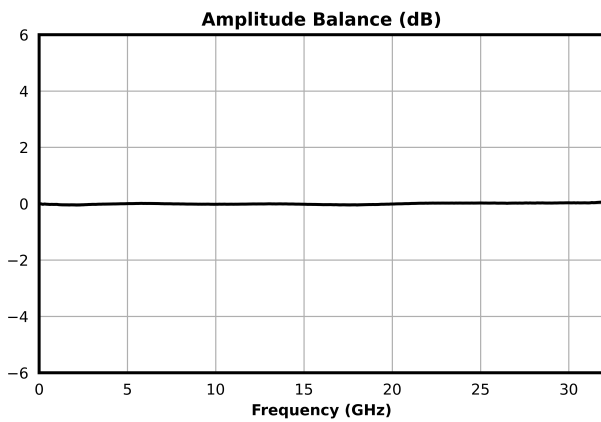
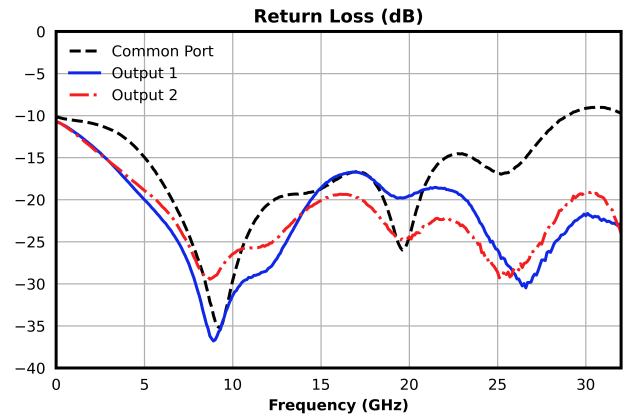
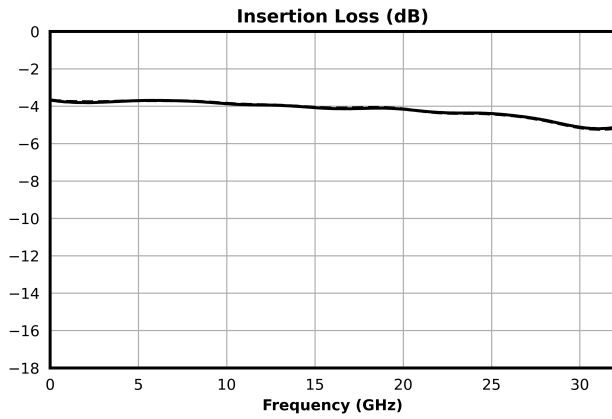
2-26.5 GHz MMIC 2-way Wilkinson Power Divider/Combiner

Electrical Specifications

The electrical specifications apply at TA=+25°C in a 50Ω system. Min and Max limits are guaranteed at TA=+25°C.

Parameter	Test Conditions	Minimum Frequency (GHz)	Maximum Frequency (GHz)	Min	Typ	Max	Unit
Excess Insertion Loss	Configuration A, Temp = 25°C	2	26.5	-	1.0	-	dB
Isolation	Configuration A, Temp = 25°C	2	26.5	-	26	-	dB
Amplitude Balance	Configuration A, Temp = 25°C	2	26.5	-	0.0	-	dB
Common Port Return Loss	Configuration A, Temp = 25°C	2	26.5	-	18	-	dB
Output Return Loss	Configuration A, Temp = 25°C	2	26.5	-	20	-	dB
Phase Balance	Configuration A, Temp = 25°C	2	26.5	-	2.6	-	°
Impedance	Configuration A, Temp = 25°C	-	-	-	50	-	Ω
Nominal Phase Shift	Configuration A, Temp = 25°C	-	-	-	0	-	°
Nominal Power Splitting	Configuration A, Temp = 25°C	-	-	-	3	-	dB

Typical Performance Plot



MPD-0226BH

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Mechanical Data

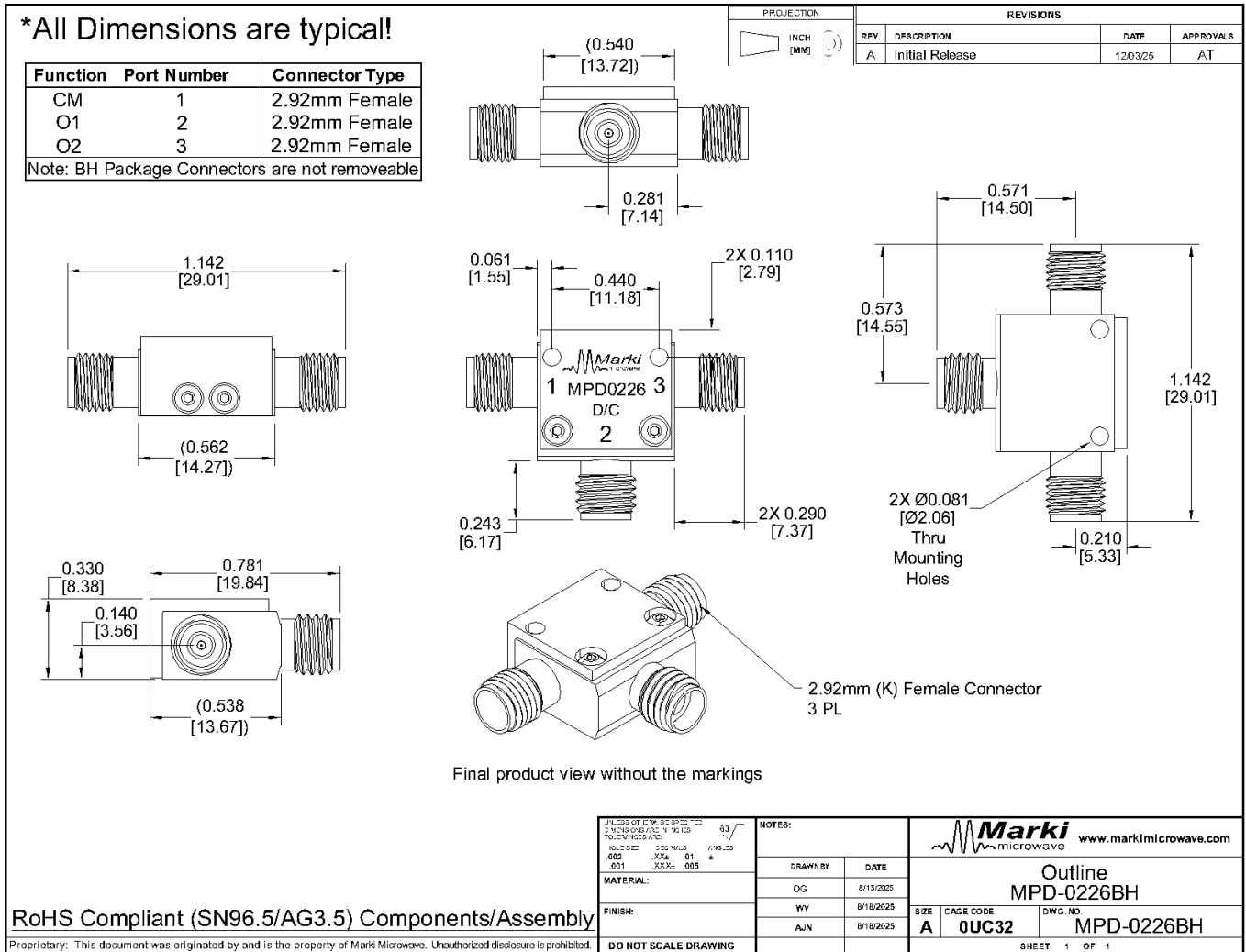
Outline Drawing

Download : [Outline 2D Drawing](#)

***All Dimensions are typical!**

Function	Port Number	Connector Type
CM	1	2.92mm Female
O1	2	2.92mm Female
O2	3	2.92mm Female

Note: BH Package Connectors are not removable



PROJECTION: INCH (MM)


REVISIONS			
REV.	DESCRIPTION	DATE	APPROVALS
A	Initial Release	12/03/25	AT

Dimensions (Inches [mm]):

- Top view: 0.540 [13.72] (width), 0.281 [7.14] (height)
- Front view: 1.142 [29.01] (total length), 0.562 [14.27] (port spacing)
- Side view: 0.330 [8.38] (height), 0.140 [3.56] (port offset), 0.781 [19.84] (total length), 0.538 [13.67] (port spacing)
- Top view (port spacing): 0.061 [1.55] (port offset), 0.440 [11.18] (port spacing), 2X 0.110 [2.79] (port diameter)
- Bottom view: 0.243 [6.17] (height), 2X 0.290 [7.37] (port diameter)
- Isometric view: 0.571 [14.50] (height), 1.142 [29.01] (total length), 0.210 [5.33] (port offset), 2X Ø0.081 [Ø2.06] Thru Mounting Holes

Final product view without the markings

2.92mm (K) Female Connector
3 PL

J:\1550 of CW 928255-00 2-26.5 GHz / 2-26.5 GHz TO: L2W1623 / L2 VOL: 2025 200 MW-05 / 11/18/25 002 -XXX- 01 # 001 -XXX- 005 #		NOTES: DRAWN BY: OG DATE: 8/15/2025 OG WY 8/18/2025 AJN 8/18/2025		 www.markimicrowave.com Outline MPD-0226BH	
MATERIAL: FINISH:		SIZE: A CAGE CODE: 0UC32 DWG. NO.: MPD-0226BH		RoHS Compliant (SN96.5/AG3.5) Components/Assembly Proprietary: This document was originated by and is the property of Marki Microwave. Unauthorized disclosure is prohibited.	
DO NOT SCALE DRAWING				SHEET 1 OF 1	

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