

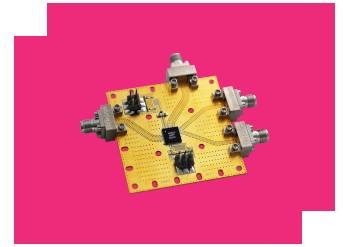
EVB-MMIQA-1035S

Evaluation Board, Integrated Drive GaAs MMIC IQ Mixer

DEVICE OVERVIEW

General Description

The EVB-MMIQA-1035S is the connectorized evaluation board for the MMIQA-1035SPSM IQ Mixer. The MMIQA-1035SPSM is a versatile, robust, and broadband IQ mixer with an integrated broadband LO driver amplifier. The EVB-MMIQA-1035S is ideal for IQ, single sideband, and image reject mixing applications with wide bandwidths and operation at mmWave frequencies. The integrated LO driver amplifier allows for operation with LO powers as low as +0dBm while retaining exceptional conversion loss and linearity.



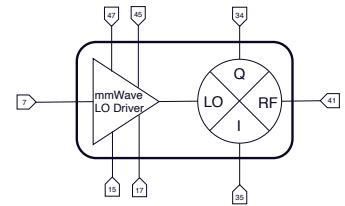
Features

RF/LO response: 10GHz - 35GHz
 IF response: DC – 12GHz
 I+Q Conversion Loss: 9 dB
 Image Rejection: 30dBc
 Minimum LO drive: +0dBm

Applications

- Single Sideband and Image Rejection Mixing
- IQ Modulation / Demodulation
- Vector Signal Modulation and Demodulation
- Band Shifting
- 5G Band Support

Functional Block Diagram



Part Ordering Options

Part Number	Description	Package	Green Status	Product Lifecycle	Export Classification
MMIQA-1035SPSM	Integrated Drive GaAs MMIC IQ Mixer	QFN	REACH RoHS	Released	EAR99
EVB-MMIQA-1035S	Evaluation Board, Integrated Drive GaAs MMIC IQ Mixer	EVB	REACH RoHS	Released	EAR99

EVB-MMIQA-1035S

Evaluation Board, Integrated Drive GaAs MMIC IQ Mixer

Table Of Contents

- **Device Overview**
 - General Description
 - Features
 - Applications
 - Functional Block Diagram
- **Revision History**
- **Specifications**
- **Mechanical Data**
 - Outline Drawing
- **Evaluation Board**
 - Evaluation Board Outline Drawing

Revision History

Revision Code	Revision Date	Comment
-	2024-10-09	Initial Release

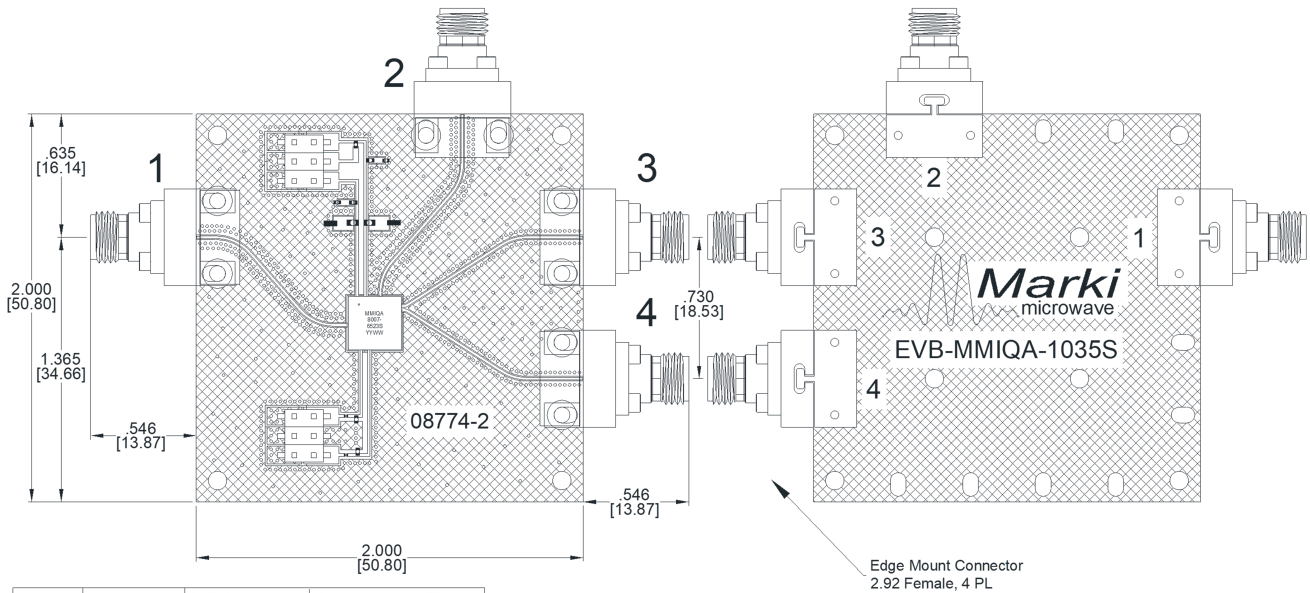
EVB-MMIQA-1035S

Evaluation Board, Integrated Drive GaAs MMIC IQ Mixer

Mechanical Data

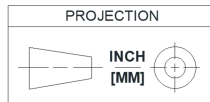
Outline Drawing

Download : [Outline 2D Drawing](#)



Port #	Function	VDC	Connector Type
1	LO	Open Line	2.92mm Female
2	RF	Short Circuit	2.92mm Female
3	I	1.269±0.050	2.92mm Female
4	Q	1.269±0.050	2.92mm Female

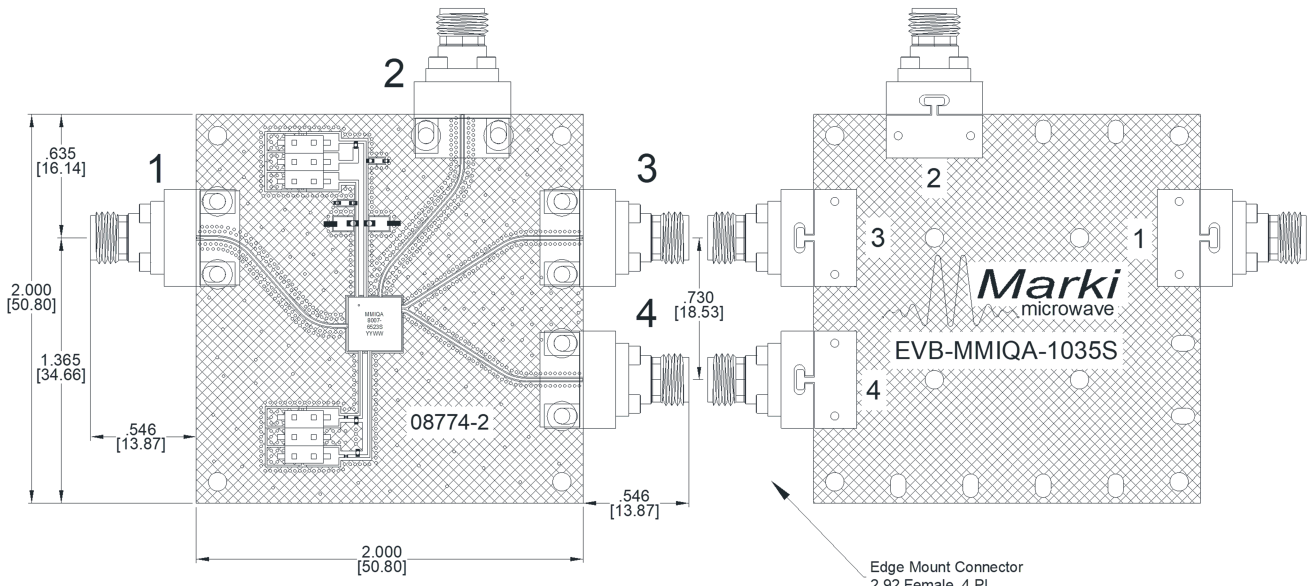
Note: Eval Connectors are not removable.



EVB-MMIQA-1035S

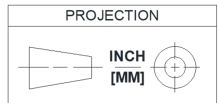
Evaluation Board, Integrated Drive GaAs MMIC IQ Mixer

Evaluation Board - Outline Drawing



Port #	Function	VDC	Connector Type
1	LO	Open Line	2.92mm Female
2	RF	Short Circuit	2.92mm Female
3	I	1.269±0.050	2.92mm Female
4	Q	1.269±0.050	2.92mm Female

Note: Eval Connectors are not removable.



Edge Mount Connector
2.92 Female, 4 PL

DISCLAIMER

MARKI MICROWAVE, INC., ("MARKI") PROVIDES TECHNICAL SPECIFICATIONS AND DATA (INCLUDING DATASHEETS), APPLICATION OR OTHER DESIGN ADVICE, WEB TOOLS, AND OTHER INFORMATION AND RESOURCES "AS IS" AND WITH ALL FAULTS. MARKI DISCLAIMS ALL WARRANTIES, EXPRESS OR IMPLIED, INCLUDING, WITHOUT LIMITATION, ANY IMPLIED WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, OR NON-INFRINGEMENT. These resources are intended for developers skilled in the art designing with Marki products. You are solely responsible for (1) selecting the appropriate products for your application, (2) designing, validating, and testing your application, and (3) ensuring your application meets applicable standards and other requirements. Marki makes no guarantee regarding the suitability of its products for any particular purpose, nor does Marki assume any liability whatsoever arising out of your use or application of any Marki product.

Marki grants you permission to use these resources only for development of an application that uses Marki products. Other reproduction or use of these resources is strictly prohibited. No license is granted to any other Marki intellectual property or to any third-party intellectual property. Marki reserves the right to make changes to the product(s) or information contained herein without notice.

MARKI MICROWAVE and T3 MIXER are trademarks or registered trademarks of Marki Microwave, Inc. All other trademarks used are the property of their respective owners.

© 2024, Marki Microwave, Inc