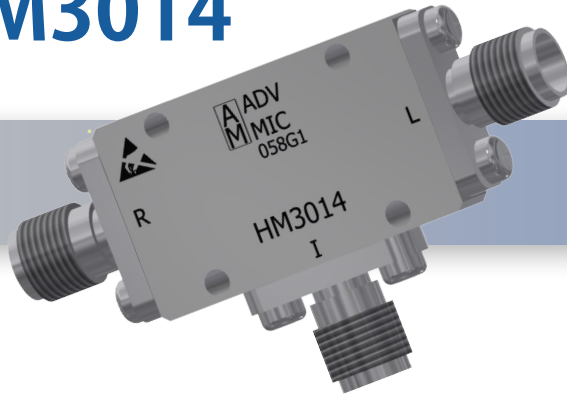


Part No:

HM3014



Advanced Microwave Multi-Octave Microwave Mixer SMA Female, 2 GHz to 18 GHz



Mixer Specifications

- Frequency Range RF/LO 2 - 18 GHz
- Frequency Range IF DC - 1.5 GHz
- Conversion Loss 6 dB Typ., 8 dB max.
- L/R Isolation 30 dB Typ., 18 dB min.
- L/I Isolation 25 dB Typ., 18 dB min.
- LO Drive Level +7 to +12 dBm
- Input P1 dB +4 dBm min.
- Noise Figure Conv. Loss +0.5 dB
- Max Input Power +20 dBm
- Operating Temperature -40° to +85°C
- Storage Temperature -54° to +125°C
- ESD Sensitive Handle only in ESD Workstation

*NOTE:
Data shown
here is actual
plotted data.
It is not
computer
generated.*

The Advanced Microwave HM3014 is multi-octave 2 to 18 GHz microwave mixer with an IF frequency range of DC to 1.5 GHz. The LO is driven with +7 to +12 dBm, and as an up or downconverter features typical conversion loss of 6 dB, L to I isolation of 25 dB, and L to R isolation of 30 dB. Maximum Input power is +20dBm.

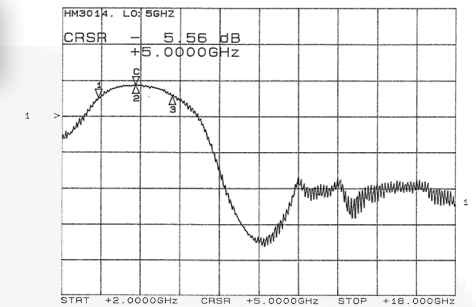
The HM3014 is RoHS compliant.



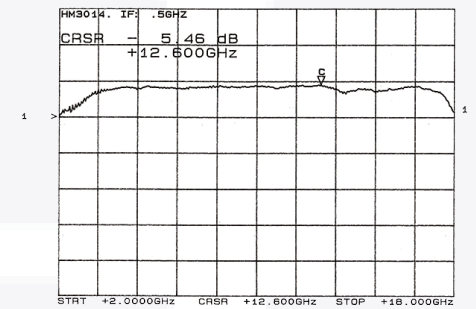
The Advanced Microwave Mixer offers an ultra wideband matching structure with a quad matched monolithic Schottky barrier diode, resulting in a broad band mixer with low conversion loss and low spurious response. The planar construction allows optimum phase and amplitude matching and tracking over a wide frequency range.

Advanced Microwave mixers can also be used for biphas and pulse modulation where the carrier signal is fed into LO and the modulated signal will appear at the RF port when a bipolar signal is fed into the IF port. The phase of the output signal will shift to 180 degrees when a reversal of polarity occurs. The current into the IF port is limited to 25 milliamps.

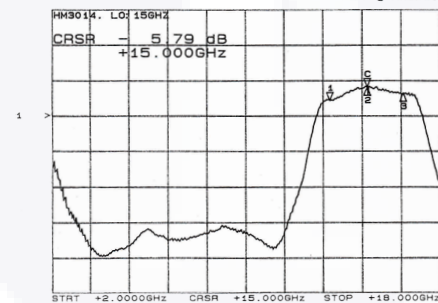
CH1: A -M -5.56 dB
5.0 dB/ REF -10.00 dB
IF BW @ fixed LO



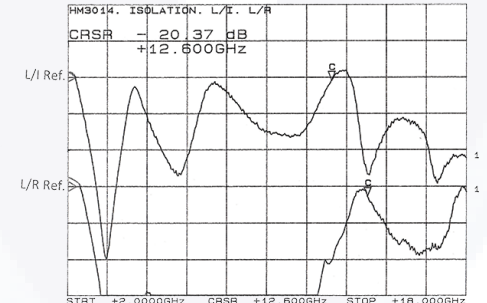
CH1: A -M -5.46 dB
5.0 dB/ REF -10.00 dB
Conv. Loss @ Fixed IF=0.5 GHz



CH1: A -M -5.78 dB
5.0 dB/ REF -10.00 dB
IF BW @ Fixed LO

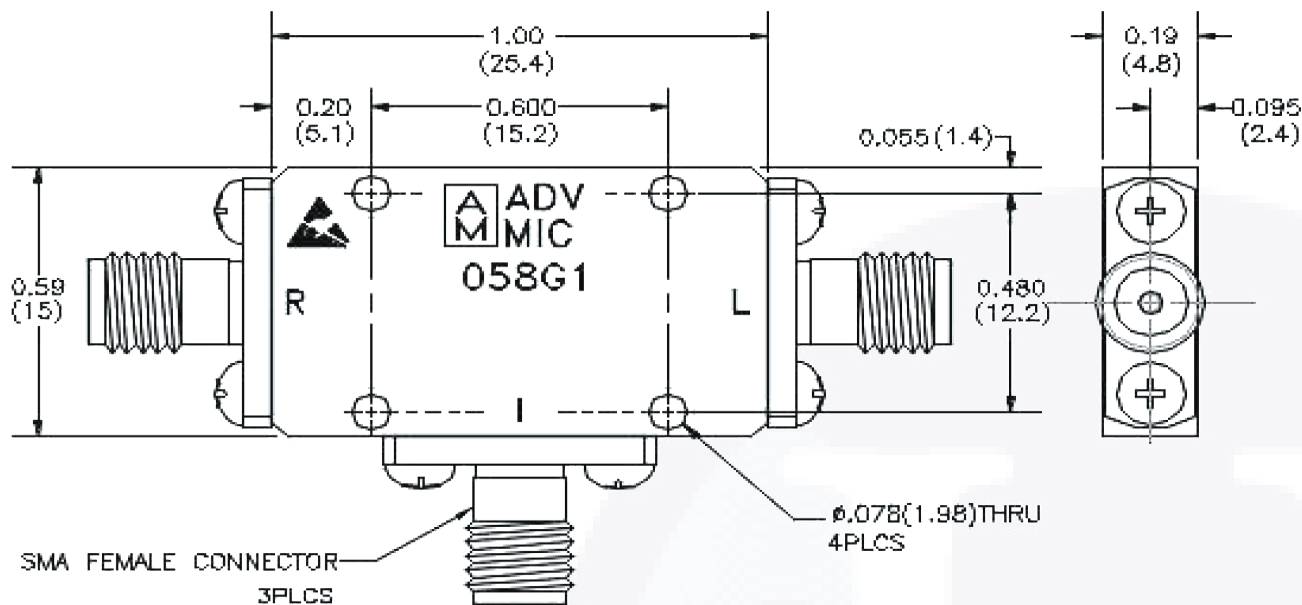


CH1: A -M -20.37 dB
5.0 dB/ REF -10.00 dB
ISOLATION




To view online, go to: <https://www.hasco-inc.com/mixers/multi-octave-microwave-mixer-sma-female-2-ghz-to-18-ghz-with-if-range-of-dc-to-1-5-ghz-lo-power-7dbm-to-12dbm/>

HM3014 | 2 - 18 GHz | Outline Drawing



To view online, go to: <https://www.hasco-inc.com/mixers/multi-octave-microwave-mixer-sma-female-4-ghz-to-20-ghz-with-if-range-of-dc-to-3-ghz-lo-power-7dbm-to-12dbm/>

LTR	DESCRIPTION	DATE	APPR.	DRAWN BY: ABC	CHECKED BY: ABC	 5214 Bonsai Street • Moorpark, CA 93021 (888) 498-3242 • sales@hasco-inc.com www.hasco-inc.com				
-	RELEASE	12/16	TAC	APPROVED BY: ABC						
				THESE DRAWINGS AND SPECIFICATIONS ARE THE PROPERTY OF HASCO COMPONENTS AND SHALL NOT BE REPRODUCED, COPIED NOR USED - IN WHOLE OR IN PART - AS THE BASIS FOR THE MANUFACTURE OR SALE OF OTHER ITEMS WITHOUT THE EXPRESS, WRITTEN PERMISSION OF HASCO COMPONENTS.		MATERIALS:	CAGE CODE:	SCALE:	SIZE:	
						SEE DATA SHEET	0T8L4	N/A	A	
						FINISHES:	PART NO./DRAWING NO.	HM3014		
						SEE DATA SHEET				
THIS DRAWING IS A CONTROLLED DOCUMENT										