

Part No:

# HM3708



## Advanced Microwave Double Balanced Microwave Mixer SMA Female, 23 GHz to 41 GHz

### Mixer Specifications

- Frequency Range RF/LO 23 - 41 GHz
- Frequency Range IF DC - 18 GHz
- Conversion Loss 10 dB Typ., 15 dB max.
- L/R Isolation 35 dB Typ., 24 dB min.
- L/I Isolation 25 dB Typ., 18 dB min.
- LO Drive Level +14 to +17 dBm
- Input P1 dB +10 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.*

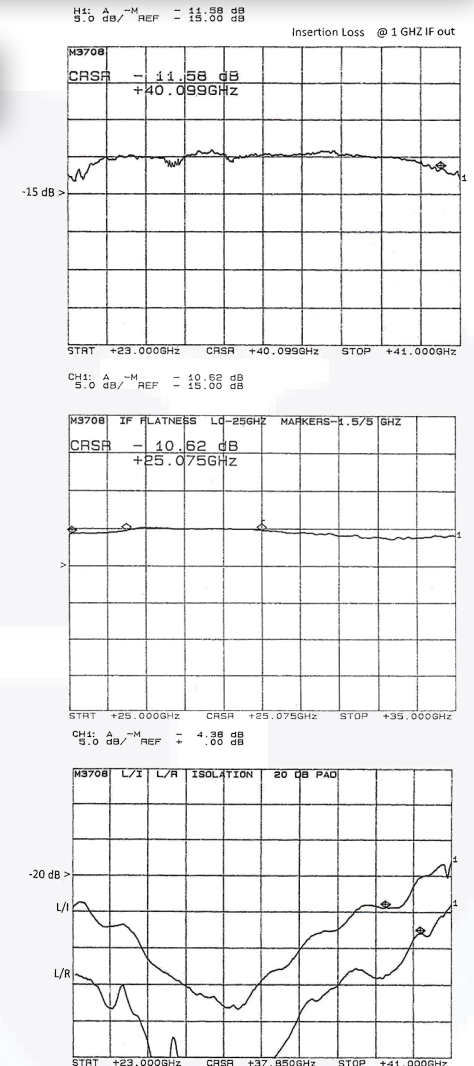
The Advanced Microwave HM3708 is a double-balanced 23 to 41 GHz microwave mixer with an IF frequency range of DC to 18 GHz. The LO is driven with +14 to +17 dBm, and as an up or downconverter features typical conversion loss of 10 dB, L to I isolation of 25 dB, and L to R isolation of 35 dB. Maximum Input power is +20dBm.

The HM3708 is RoHS compliant.



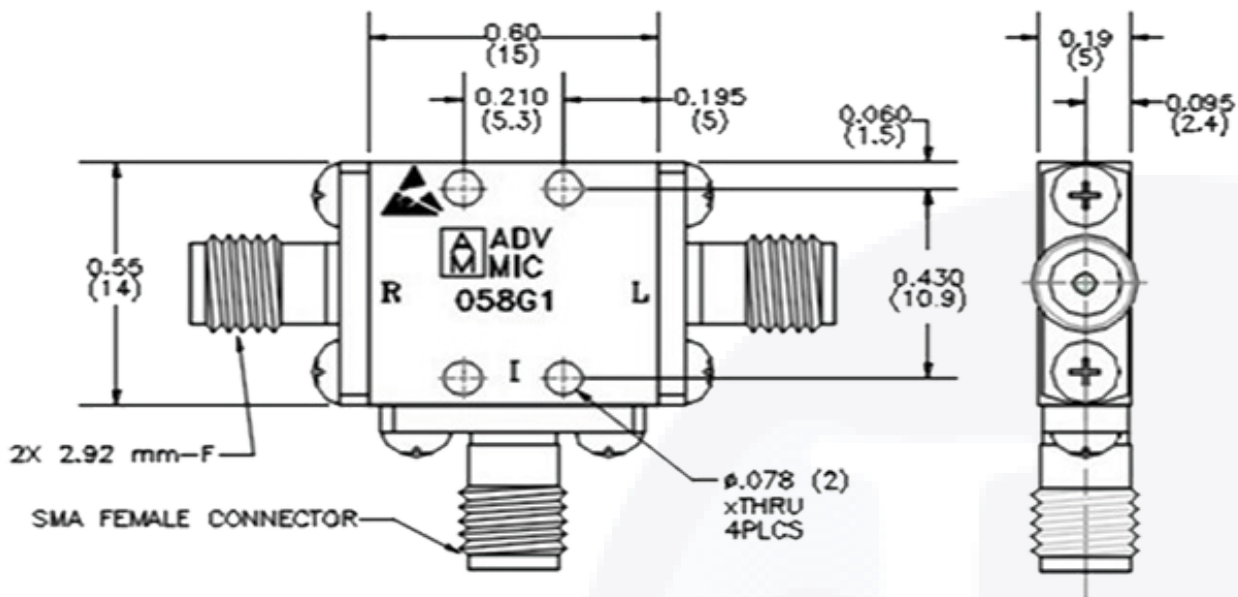
The Advanced Microwave Mixer offers an ultra wideband matching structure with a quad matched monolithic Schottky barrier diode, resulting in a broad band mixer with low conversion loss and low spurious response. The planar construction allows optimum phase and amplitude matching and tracking over a wide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




To view online, go to: <https://www.hasco-inc.com/mixers/double-balanced-microwave-mixer-sma-female-23-ghz-to-41-ghz-with-if-range-of-dc-to-18-ghz-lo-power-14dbm-to-17dbm/>

# HM3708 | 23 - 41 GHz | Outline Drawing



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-	RELEASE	12/16	TAC	APPROVED BY: ABC						
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						SEE DATA SHEET	OT8L4	N/A	A	
						FINISHES:	PART NO./DRAWING NO.	<b>HM3708</b>		
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