

Double Balanced Mixer

Model MC134MS-3 Model MC134MS-14

RF 17.0 to 24.0 GHz

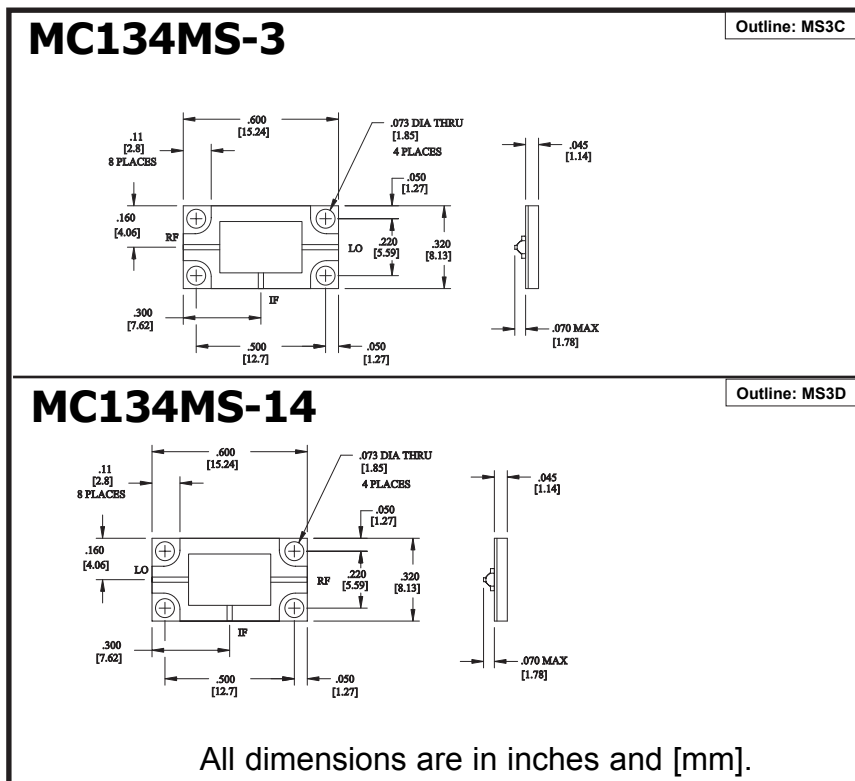
Communications Band

Electrical Specifications ⁽¹⁾:

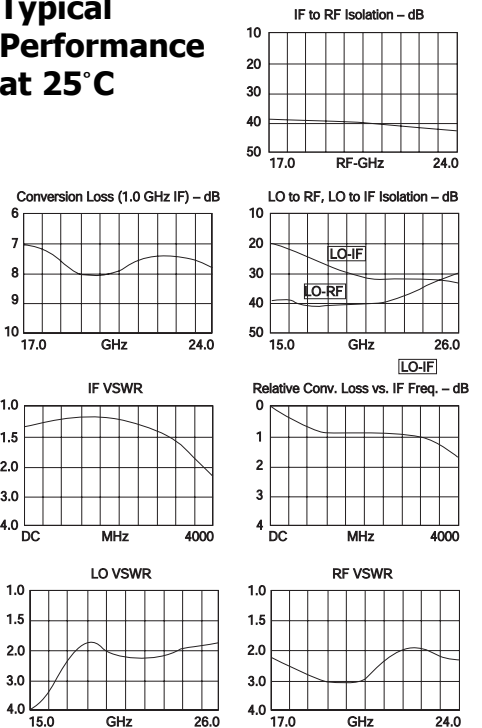
Parameter	Conditions			Specifications		
	RF (GHz)	LO (GHz)	IF (MHz)	Min	Typical	Max
SSB Conversion loss: ^{(2) (3)}	17.0-24.0	15.0-26.0	DC-2000		7.5 dB	9.5 dB
	17.0-24.0	15.0-26.0	DC-4000		8.5 dB	10.5 dB
Isolation		15.0-26.0			38 dB	
		15.0-26.0			30 dB	
	17.0-24.0				40 dB	
Input 1 dB Compression Point:	17.0-24.0	15.0-26.0	DC-4000		+3 dBm	
Input Third Order Intercept Point:	17.0-24.0	15.0-26.0	DC-4000		+13 dBm	
LO Power: ⁽⁴⁾	17.0-24.0	15.0-26.0	DC-4000		+10 dBm	

Notes:

- Specifications are guaranteed when tested as a downconverter in a 50 Ohm system at +25°C with the nominal LO power. Specifications indicated as typical are not guaranteed.
- Noise figure is typically within ±0.5 dB of conversion loss for IF frequencies greater than 10 MHz.
- Conversion loss typically degrades less than 0.5 dB at +100°C and improves less than 0.5 dB at -55°C.
- Usable LO drives are up to 2 dB below and 3 dB above nominal.
- See Application note M112, for aid in selecting the outline and for mounting and installation information.



Typical Performance at 25°C



Spectrum Microwave · 2144 Franklin Drive N.E. · Palm Bay, FL 32905 · PH (888) 553-7531 · Fax (888) 553-7532

www.SpectrumMicrowave.com Spectrum Microwave (Europe) · 2707 Black Lake Place · Philadelphia, PA 19154 · PH (215) 464-4000 · Fax (215) 464-4001