



M63H / M63HC MY63H / MY63HC

DOUBLE-BALANCED MIXER

- ◆ LO 2.5 TO 7.5 GHz
- ◆ RF 2.5 TO 6.5 GHz
- ◆ IF DC TO 1.5 GHz
- ◆ LO DRIVE +20 dBm (NOMINAL)
- ◆ HIGH THIRD-ORDER I.P.: +22 dBm (TYP.)
- ◆ MIL-M-28837 EQUIVALENT LEVEL SCREENING AVAILABLE

Guaranteed Specifications^{1,2}

Characteristics	Typ.	+25°C	-54°C to +85°C	Test Conditions
SSB Conversion Loss and SSB Noise Figure (Max.)	5.8 dB 6.0 dB	6.5 dB 7.5 dB	6.8 dB 7.8 dB	f_R 3.0 to 5.0 GHz f_L 3.0 to 5.5 GHz f_I 0.03 to 0.5 GHz f_R 2.5 to 6.5 GHz f_L 2.5 to 7.5 GHz f_I 0.03 to 1.5 GHz
ISOLATION (Min.) f_L to R f_L to I	42 dB 32 dB 24 dB 18 dB 21 dB	30 dB 26 dB 19 dB 13 dB 17 dB	29 dB 25 dB 18 dB 12 dB 16 dB	f_L 2.5 to 6.5 GHz f_L 6.5 to 7.5 GHz f_L 3.0 to 5.5 GHz f_L 5.5 to 7.5 GHz f_L 2.5 to 3.0 GHz
Conversion Compression	1.0 dB			f_R level +14 dBm f_L level +20 dBm
Third-Order Input Intercept Point	+22 dBm			f_{R1} 4.00 GHz at 0 dBm f_{R2} 3.99 GHz at 0 dBm f_L 5.0 GHz at +20 dBm

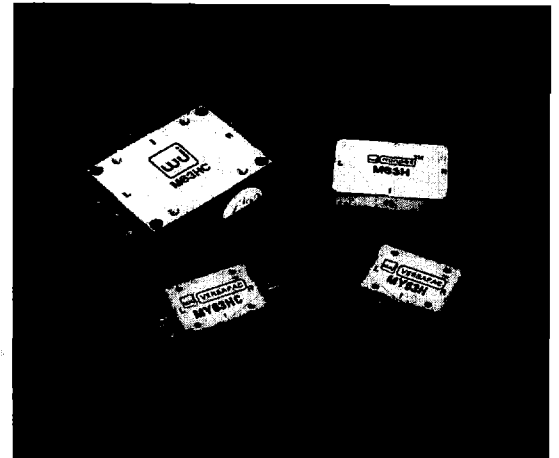
Notes:

1. Measured in a 50-ohm system with nominal LO drive and downconverter application only, unless otherwise specified. The I-Port frequency range extends to DC for phase detection, pulse modulation, or attenuator applications. I-Port VSWR degrades from a 50-ohm system at low IF frequencies.
2. Typical values are measured at 25°C and are not guaranteed. Typical performance applies to the MINPAC™ model and does not necessarily reflect the performance of the VERSAPAC® model.

Absolute Maximum Ratings

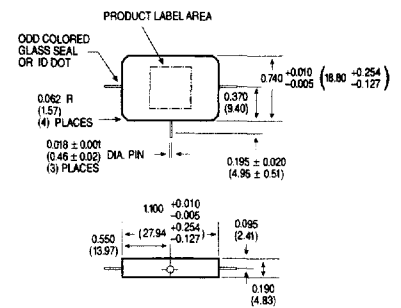
Operating Temperature-54°C to +100°C
 Storage Temperature.....-65°C to +100°C
 Peak Input Power+24.7 dBm max. at +25°C, +20.9 dBm max. at +100°C
 Peak Input Current at 25°C100 mA DC

Weight M63H: 14 grams (0.5 oz.) max.
 M63HC: 45 grams (1.6 oz.) max.
 MY63H: 7.9 grams (0.28 oz.) max.
 MY63HC: 20.0 grams (0.70 oz.) max.



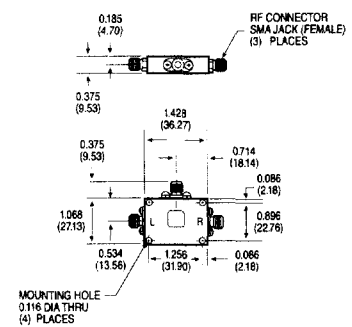
Outline Drawings

M63H (MINPAC)



DIMENSIONS ARE IN INCHES (MILLIMETERS)
 ± 0.15 (.38) UNLESS OTHERWISE SPECIFIED

M63HC (CONNECTORIZED)



DIMENSIONS ARE IN INCHES (MILLIMETERS)
 ± 0.15 (.38) UNLESS OTHERWISE SPECIFIED

