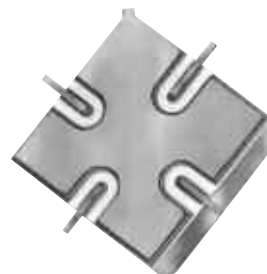


6 TO 18 GHz DOUBLE-BALANCED MIXER

MODELS: M0618W3 AND M0618W8

FEATURES

- RF/LO coverage 6 to 18 GHz
- IF operation DC to 6 GHz
- LO power range +17 to +23 dBm
- Packaging Hermetically sealed
- Surface mount



ELECTRICAL SPECIFICATIONS

INPUT PARAMETERS	CONDITION	UNITS	MIN.	TYP.	MAX.
RF frequency range		GHz	6		18
RF VSWR	LO = +20 dBm	Ratio		3.25:1	
LO frequency range		GHz	6		18
LO power range		dBm	+17		+23
LO VSWR	LO = +20 dBm	Ratio		3:1	
TRANSFER CHARACTERISTICS	CONDITION	UNITS	MIN.	TYP.	MAX.
Conversion loss (IF = 1 GHz)	LO = +20 dBm	dB		10	13.5
Single-sideband noise figure at 25°C	LO = +20 dBm	dB		10.5	
LO-to-RF isolation	LO = +20 dBm	dB	20	25	
LO-to-IF isolation		dB		15	
RF-to-IF isolation		dB		12	
Input power 1 dB compression point	LO = +20 dBm	dBm		+12	
Input two-tone third-order intercept point	LO = +20 dBm	dBm		+22	
OUTPUT PARAMETERS	CONDITION	UNITS	MIN.	TYP.	MAX.
IF frequency range	3 dB bandwidth	GHz	DC		6
IF VSWR		Ratio		3:1	

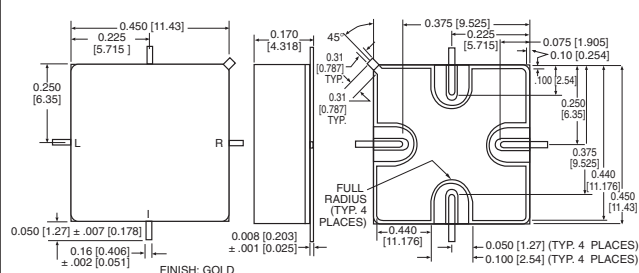
NOTE: Test data supplied at 25°C;
conversion loss and LO-to-RF isolation.

MAXIMUM RATINGS

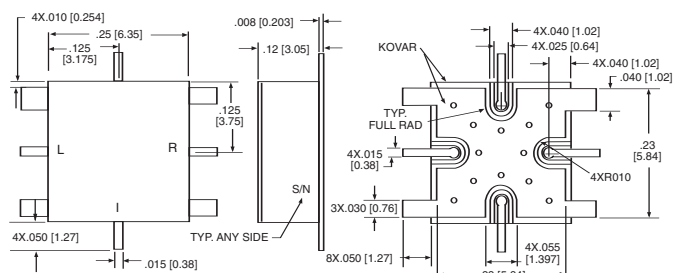
Specification temperature +25°C
Operating temperature -54 to +85°C
Storage temperature -65 to +125°C

OUTLINE DRAWINGS

W3 HOUSING



W8 HOUSING



NOTE: All dimensions shown in brackets [] are in millimeters.

