

18 TO 26 GHz DOUBLE-BALANCED MIXER

MODEL: M1826W1

FEATURES

- RF/LO coverage 18 to 26 GHz
- IF operation DC to 8 GHz
- Input IP³ +14 dBm
- LO power range +10 to +15 dBm
- Packaging Hermetically sealed



ELECTRICAL SPECIFICATIONS

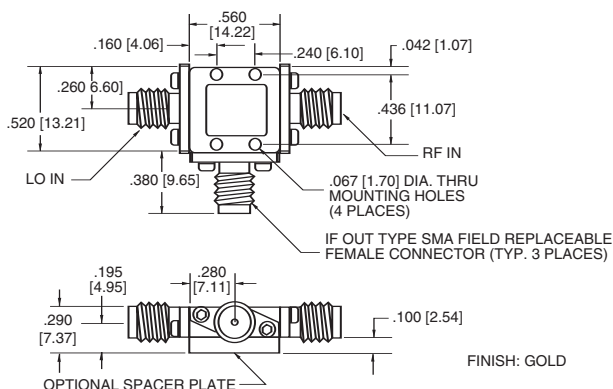
INPUT PARAMETERS	CONDITION	UNITS	MIN.	TYP.	MAX.
RF frequency range		GHz	18		26
RF VSWR	RF = -10 dBm	Ratio		2.75:1	
LO frequency range		GHz	18		26
LO power range		dBm	+10		+15
LO VSWR		Ratio		2.75:1	
TRANSFER CHARACTERISTICS	CONDITION	UNITS	MIN.	TYP.	MAX.
Conversion loss (IF = 1 GHz)	LO = +13 dBm	dB		9	12
Single-sideband noise figure at 25°C		dB		9.5	
LO-to-RF isolation		dB	25	35	
LO-to-IF isolation		dB	20	30	
RF-to-IF isolation		dB		20	
Input power 1 dB compression point	LO = +13 dBm	dBm		+7	
Input two-tone third-order intercept point	LO = +13 dBm	dBm		+14	
OUTPUT PARAMETERS	CONDITION	UNITS	MIN.	TYP.	MAX.
IF frequency range at 3 dB bandwidth	LO = +13 dBm	GHz	DC		8
IF VSWR	IF = -10 dBm	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 DRAWING



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

TYPICAL SINGLE-TONE (m) RF x (n) LO RELATIVE SPUR LEVEL (dBc) TO REF (RF = -10 dBm, LO = +13 dBm)

RF HARMONIC (m)		>110	>110	>110
4				
3		92	68	85
2	69	76	75	
1	REF	58		
		2	3	4
		LO HARMONIC (n)		

