

2 TO 18 GHz BIPOLAR/SRD/MESFET COMB GENERATOR

MODEL: EOM0218HW4

FEATURES

- RF output..... 2 to 18 GHz
- RF input 0.5 to 1.5 GHz
- High multiplication ratios
- Integrated input power amplifier
- Packaging..... Hermetically sealed



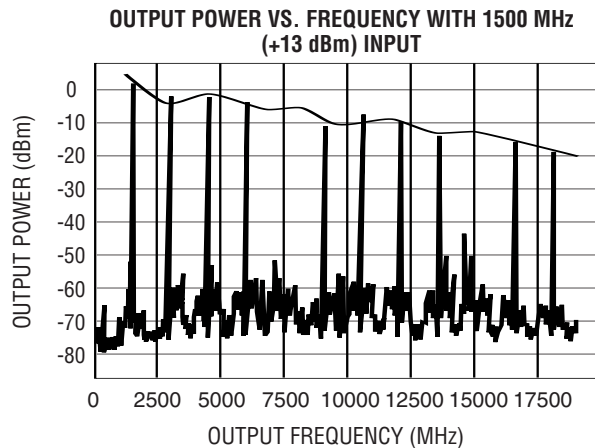
This unit is suitable for high-frequency LO generation using a lower frequency phase stable reference. The output spectrum is easily filtered, due to the large comb spacing (high input frequency and multiplication orders). In addition, an input low noise power amplifier is provided to allow seamless integration with a +10 dBm input source.

ELECTRICAL SPECIFICATIONS

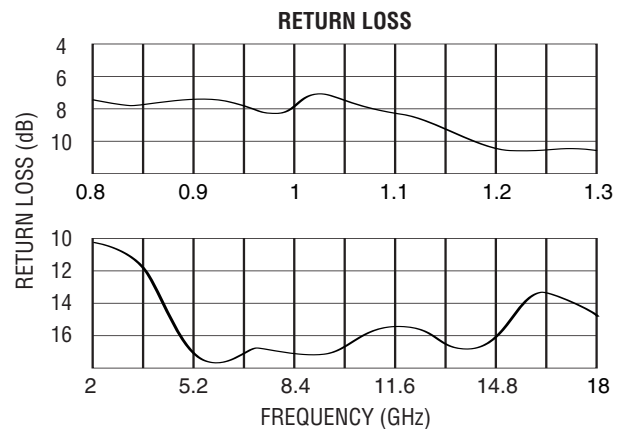
INPUT PARAMETERS	CONDITION	UNITS	MIN.	TYP.	MAX.
RF frequency range		GHz	0.5		1.5
RF power range	dBm	+7		+13	
RF VSWR	Ratio		2:1		
TRANSFER CHARACTERISTICS	CONDITION	UNITS	MIN.	TYP.	MAX.
Conversion loss (X2) (X4) (X9) (X12)	1.5 GHz input	dB		17	20
		dB		18	21
		dB		24	27
		dB		33	36
OUTPUT PARAMETERS	CONDITION	UNITS	MIN.	TYP.	MAX.
RF frequency range		GHz	2		18
RF VSWR	Ratio		2:1		



EOM0218HW4 TYPICAL TEST DATA



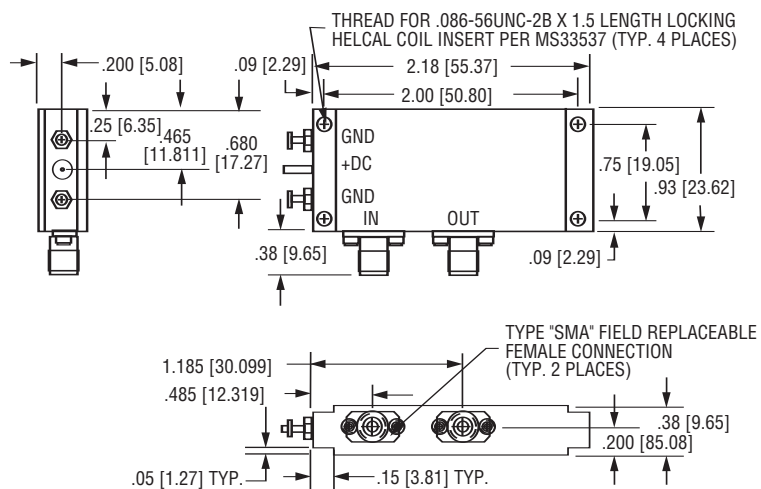
($P_{IN} = 13 \text{ dBm}$)
($F_{IN} = 1500 \text{ MHz}$)



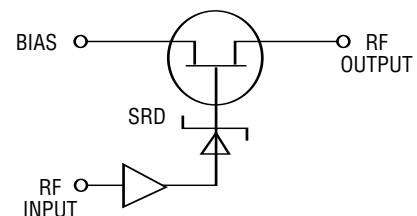
MAXIMUM RATINGS

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

OUTLINE DRAWING



BLOCK DIAGRAM



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