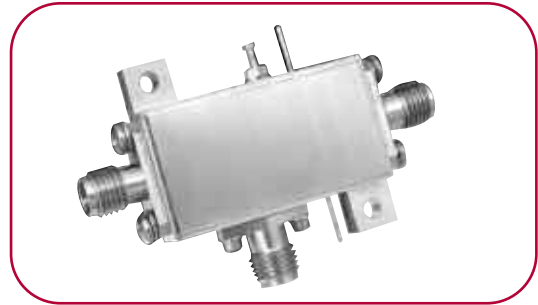


X3 MULTIPLIER MIXER

MODEL: SYSMM3X2934

FEATURES

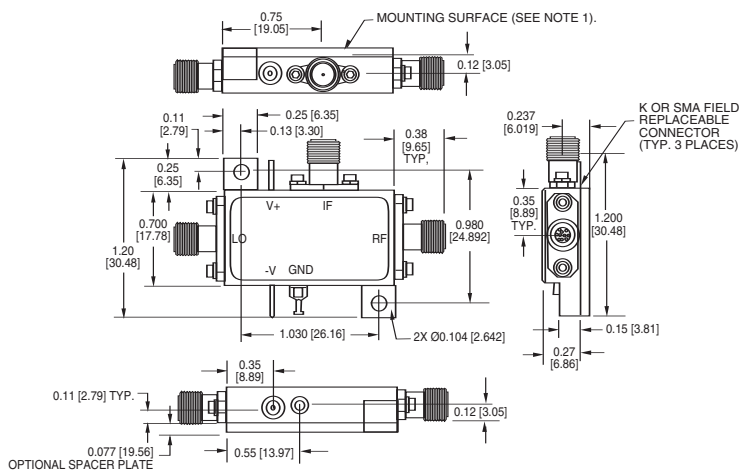
- Mixer with active LO tripler
- RF-to-IF conversion loss 9 dB
- LO-to-RF fundamental leakage -70 dBm
- Use as an up- or downconverter
- Packaging Hermetically sealed



ELECTRICAL SPECIFICATIONS

INPUT PARAMETERS	CONDITION	UNITS	MIN.	TYP.	MAX.
RF frequency range		GHz	29		34
RF VSWR	50 ohm reference	Ratio		2.5:1	
LO frequency range		GHz	9.7		10.3
LO power		dBm	+13		+15
V+ bias voltage	@ 275 mA typ.	VDC	12		
V- bias voltage	@ 25 mA typ.	VDC	-12		
TRANSFER CHARACTERISTICS	CONDITION	UNITS	MIN.	TYP.	MAX.
RF-to-IF conversion loss		dB		9	12
LO-to-RF leakage at 3LO		dBm		-25	-15
LO fundamental leakage at RF		dBm		-70	-55
2X fundamental LO at RF		dBm		-60	-40
Output power at 1 dB compression point		dBm	-5	-1	
OUTPUT PARAMETERS	CONDITION	UNITS	MIN.	TYP.	MAX.
IF frequency range		GHz	DC		3
IF VSWR	50 ohm reference	Ratio		2.5:1	

OUTLINE DRAWING



Note 1: Unit's mounting surface shall be attached to a heatsink capable of dissipating the devices power consumption without exceeding the operating temperature limits.

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

MAXIMUM RATINGS

Specification temperature..... +25°C
 Operating temperature -40 to +65°C
 Storage temperature..... -65 to +95°C

Additional options for:

RF, IF, LO amplifiers..... Contact MITEQ

NOTE: Test data supplied at 25°C;
 conversion loss and isolation.

BLOCK DIAGRAM

