

# ACTIVE 4X FREQUENCY MULTIPLIER

## MODEL: SYS4X1146

### FEATURES

- High fundamental rejection..... -60 dBc
- Output power..... +16 dBm
- Packaging ..... Hermetically sealed

### ELECTRICAL SPECIFICATIONS

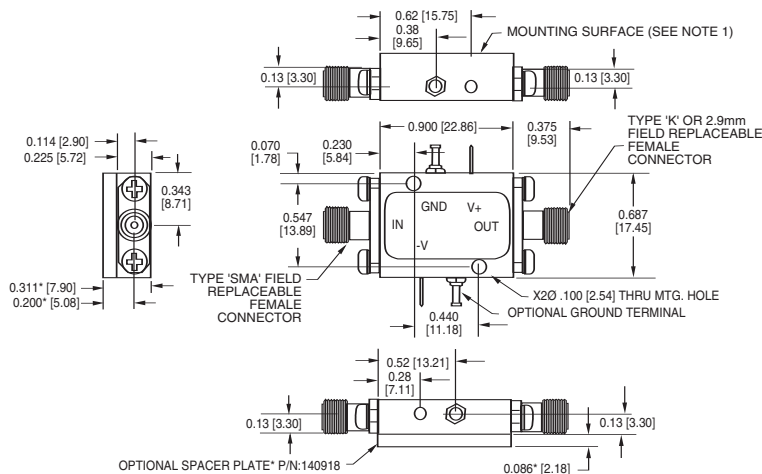
INPUT PARAMETERS	CONDITION	UNITS	MIN.	TYP.	MAX.
RF frequency range		GHz	10.25		11.5
RF VSWR	50 ohm reference	Ratio		2.5:1	
RF power range		dBm		+12	
V+ bias voltage	@ 180 mA max.	VDC	9		16
V- bias voltage	@ 15 mA max.	VDC	-9		-16
TRANSFER CHARACTERISTICS	CONDITION	UNITS	MIN.	TYP.	MAX.
Output power		dBm	+13	+16	
Fundamental leakage	Input	dBc		-60	
Second-harmonic leakage	Input	dBc			
Third-harmonic leakage	Input	dBc		-45	
OUTPUT PARAMETERS	CONDITION	UNITS	MIN.	TYP.	MAX.
RF frequency range		GHz	41		46
RF VSWR	50 ohm reference	Ratio		2.75:1	

NOTE: Test data supplied at 25°C;  
fundamental rejection and output power.

### MAXIMUM RATINGS

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

### OUTLINE DRAWING



- NOTES: 1. Unit's mounting surface shall be attached to a heatsink capable of dissipating the devices power consumption without exceeding the operating temperature limits.  
2. All dimensions shown in brackets [ ] are in millimeters.

