

# ACTIVE 3X FREQUENCY MULTIPLIER (CONT.)

## MODEL: SYS3X1442

### FEATURES

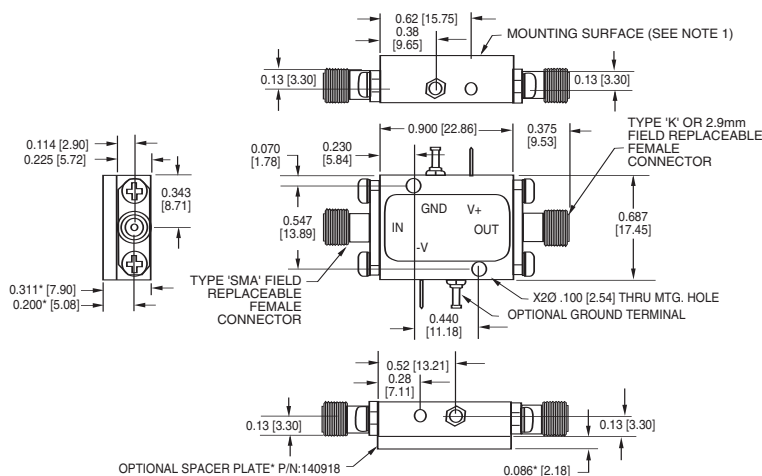
- High fundamental rejection..... -80 dBc
- Output power..... +16 dBm
- Packaging ..... Hermetically sealed

### ELECTRICAL SPECIFICATIONS

INPUT PARAMETERS	CONDITION	UNITS	MIN.	TYP.	MAX.
RF frequency range		GHz		14	
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	+14	+16	
Fundamental leakage	Input	dBc		-80	-60
Second-harmonic leakage	Input	dBc		-80	-60
OUTPUT PARAMETERS	CONDITION	UNITS	MIN.	TYP.	MAX.
RF frequency range		GHz		42	
RF VSWR	50 ohm reference	Ratio		2.75:1	

NOTE: Test data supplied at 25°C; fundamental rejection, output power and second-harmonic leakage.

### 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.

### MAXIMUM RATINGS

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

### ADD SUFFIX TO MODEL NO.

WG (WR22)  
 S  
 VH

### OPTIONS

WR22 output waveguide  
 Single positive supply  
 Very high fundamental rejection (80 dBc)

