



# Miniature Single Sideband Modulators With Removable Connectors

27XX Series

## Features

- Broadband Double-Balanced 6-18 GHz
- Hermetic Seal
- Removable SMA Connectors
- Small 1.30 x 1.30 x .31 Inch Thick

## Description

Miniature Single Sideband Modulators utilizing reliable planar construction. Ideal for drop-in applications where size, weight and reliability are prime concerns.

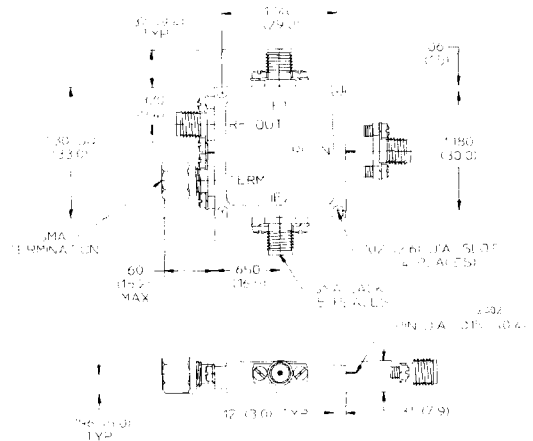
## Environmental

These devices are designed to meet the following conditions:

Test	MIL-STD	Method	Cond
Mechanical Shock	202	213B	C
Constant Acceleration	883	2001	A
Thermal Cycle	883	1010	B
Vibration, HF	202	204D	D
Moisture Resistance	202	106E	-
Salt Spray	202	101D	A
Solvent Resistance	883	2015	-
Hermeticity	883	1014	Fine & Gross
Non-Destructive Bond Pull	883	2023	

## Maximum Ratings

Parameter	
Operating Temp. Max.	-55 C to +100 C
Storage Temp. Max.	-65 C to +125 C
RF Input Power Max.	400 mW to any port 500 mW to all ports



Sideband Selection			
IF1 in	RF out > RF in	IF2 Term 50 Ω	
IF2 in	RF out < RF in	IF1 Term 50 Ω	
(IF termination not supplied)			

Specifications Subject to Change Without Notice.

M/A-COM Inc. ■ 1011 Pawtucket Boulevard, Lowell, MA 01853 USA

■ Telephone: 800-366-2266

Specifications\* 25°C

RF/LO Frequency Range (GHz)	L-R Isolation (dB min.)	L-I Isolation (dB min.)	VSWR R, L, I Typical	Sideband Suppression <sup>3</sup> (dB min.)	Conversion Loss <sup>2</sup> (dB) Max./Typ.	Input IdB Compression Pt. (dBm Min.)	LO Range (dBm) Min./Max.	Part Number <sup>5</sup>
					9.5/8.0	+3	+9/+13	27XX-09-SSL
6.0-18.0	20	23	1.5,2.0,1.5	16	9.5/8.0	+9	+13/+17	27XX-09-SSM
					10.0/8.5	+13	+17/+21	27XX-09-SSH

Notes:

1. All measurements performed in a 50 ohm system.
  2. Conversion loss measured relative to IF input level.
  3. Sideband suppression measured relative to desired sideband output level.
  4. Alternate IF ranges are also available. Consult factory for details.
  5. Specify IF frequency range from selection table.
- \* Consult the factory for typical performance over frequency.

IF Selection Table

XX	IF Frequency Range
05	20-40 MHz
06	40-80 MHz
07	80-160 MHz
08	100-200 MHz

Specifications Subject to Change Without Notice.

M/A-COM Inc.

1011 Pawtucket Boulevard, Lowell, MA 01853 USA

Telephone: 800-366-2266