

970 Series Wide-Band Balanced Mixers

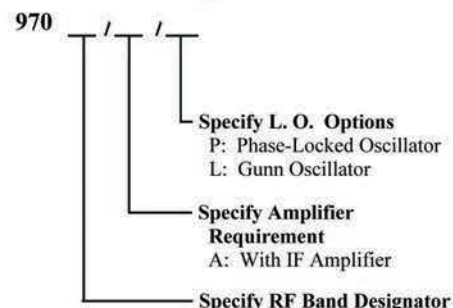
MI-WAVE
Millimeter Wave Products Inc.



Features

- Very Wide RF Bandwidth
- Available With or Without IF Amplifiers

Ordering Information



Description

Mi-Wave's 970 series balanced mixers have been designed to cover extremely wide RF bandwidths for EW/ELINT applications. These units offer excellent SSB conversion loss figures and are available up to 110 GHz. GaAs beam-lead diodes are used with a broadband circuit to provide excellent IF response. The 970 series mixers are available with low noise IF amplifiers.

Please be sure to specify center frequency and IF output frequency.

Technical Specifications

Model Number	Conversion Loss	
	Max. ¹	Typ. ¹
970A	8.0	7.0
970B	8.5	7.5
970U	9.0	7.5
970V	9.5	7.0
970E	9.5	7.5
970W	10.0	7.5

1. Conversion loss SSB (dB) assumes +12 dBm L. O. and 4 GHz IF. Please note that noise figure and conversion loss both increase with increasing IF.

Operating Specifications

Bandwidth.....	18 GHz
LO Drive.....	+12 dBm Typ.
LO/RF Isolation.....	20 dB, Typ.
VSWR-RF.....	2:5:1 Typ.
CW RF Burnout Level.....	+20 dBm Max.
Pulsed RF Burnout Level.....	+23 dBm Max.
	200 ns
	40 KHz PRF
Operating Temperature.....	-0 C to +50 C