

# 970 Series

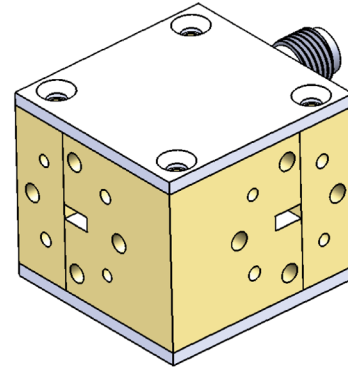
Wide-band Balanced Mixers

## 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.

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

Mixers with lower LO drive available.

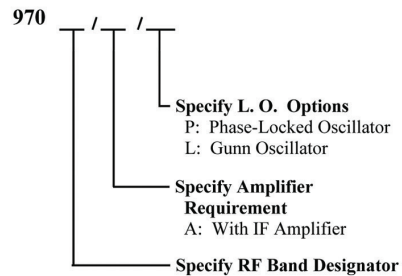


Technical Specifications		
Model Number	Conversion Loss	
	Max. <sup>1</sup>	Typ. <sup>1</sup>
970A	8.0	7.0
970B	8.5	7.5
970U	9.0	7.5
970V	9.5	7.0
970E	9.5	7.5
970W	10.0	7.5

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

## Ordering Information



### NOTE:

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

Consult Mi-Wave for current specifications and outline drawings