MY88 / MY88C



Triple-Balanced Mixer

Rev. V3

Features

- LO 2 TO 18 GHz
- RF 2 TO 18 GHz
- IF 1 TO 8 GHz
- LO DRIVE: +13 dBm (NOMINAL)
- WIDE BANDWIDTH

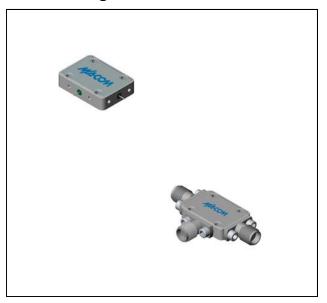
Description

MY88 is a triple balanced mixer, designed for use in military, commercial and test equipment applications. The design utilizes Schottky ring quad diodes and broadband soft dielectric baluns to attain excellent performance. The use of high temperature solder assembly processes used internally makes it ideal for use in manual, semi-automated assembly. Environmental screening available to MIL-STD-883, MIL-STD-202 or MIL-DTL-28837, consult factory.

Ordering Information

Part Number	Package			
MY88	Versapac			
MY88C	SMA Connectorized			

Product Image



Electrical Specifications: $Z_0 = 50\Omega$ Lo = +13 dBm (Downconverter Application only)

Parameter	Test Conditions	Units	Typical	Guaranteed	
Parameter				+25°C	-54º to +85ºC
SSB Conversion Loss (max) & SSB Noise Fig- ure (max)	fR = 2 to 10 GHz, fL = 2 to 18 GHz, fI = 1 to 8 GHz fR = 10 to 18 GHz, fL = 10 to 18 GHz, fI = 2 to 8 GHz fR = 10 to 18 GHz, fL = 2 to 10 GHz, fI = 2 to 8 GHz	dB dB dB	7.5 8.0 8.0	10.0 10.5 11.0	10.5 11.0 11.5
Isolation, L to R (min)	fL = 2 to 18 GHz	dB	28	15	13
Isolation, L to I (min)	fL = 2 to 18 GHz	dB	32	16	14
1 dB Conversion Comp.	fL = +13 dBm	dBm	+7		
Input IP3	fR1 = 6 GHz at -3 dBm, fR2 = 6.01 GHz at -3 dBm, fL = 10 GHz at +13 dBm fR1 = 15 GHz at -3 dBm, fR2 = 15.01 GHz at -3 dBm, fL =18 GHz at +13 dBm	dBm dBm	+18.5 +22		

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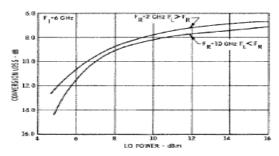


Triple-Balanced Mixer

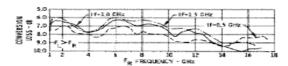
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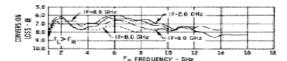
Typical Performance Curves

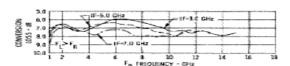
Conversion Loss vs. Drive Power

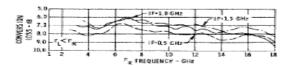


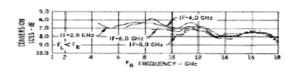
Conversion Loss vs. Frequency, LO @ +13 dBm

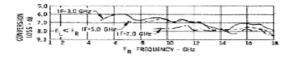




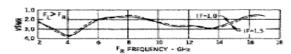


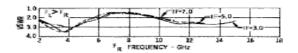


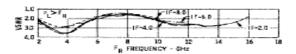




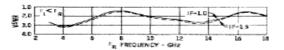
R-Port VSWR LO@ + 13 dBm

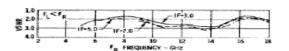






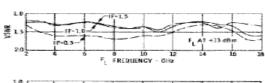
R-Port VSWR LO @ +13 dBm

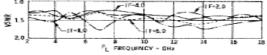






I-Port VSWR vs. Frequency LO @ +13 dBm





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