

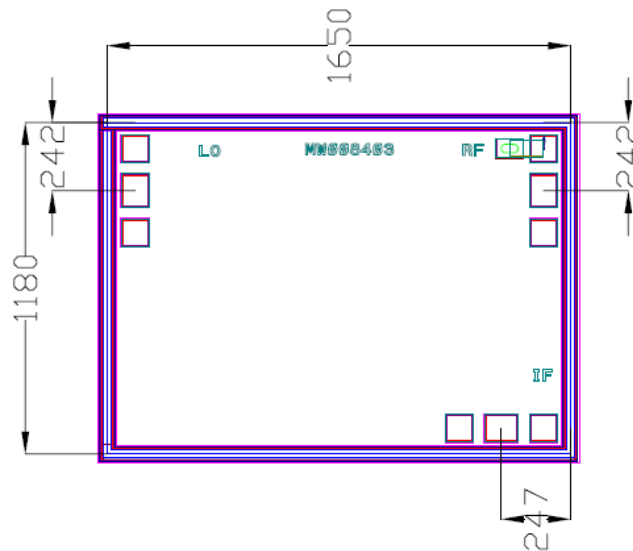
General Description

MWM008 is a mixer designed and manufactured using the GaAs pHEMT process. This product can achieve up-conversion or down-conversion function in the 2-18GHz band, the IF bandwidth is DC-3GHz, and the conversion loss is less than 10dB.

Features

LO-RF Isolation: 35dB
 Frequency Conversion Loss: 10dB
 IF Bandwidth: DC-3GHz
 Chip Size: 1650×1180μm

Functional Diagram (Typical bondpad: 100umx100um)

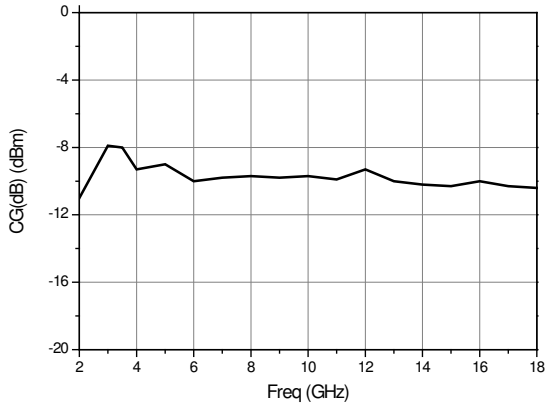


Electrical Specifications, TA = +25°C, (LO= +14dBm)

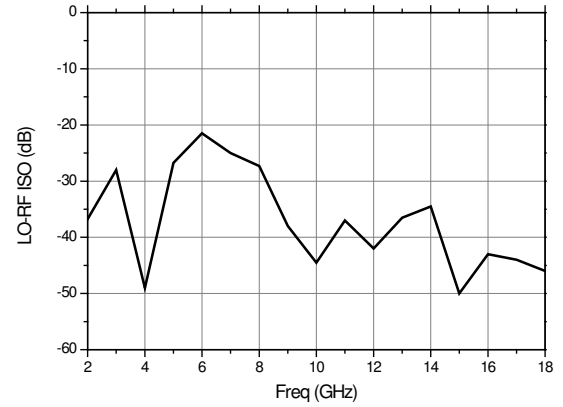
Parameter	Min	Typ	Max	Units
RF Bandwidth		2 – 18		GHz
LO Bandwidth		2 – 18		GHz
IF Bandwidth		DC – 3		GHz
Frequency Conversion Loss		-10		dB
LO-RF Isolation		-35		dB

Test Result

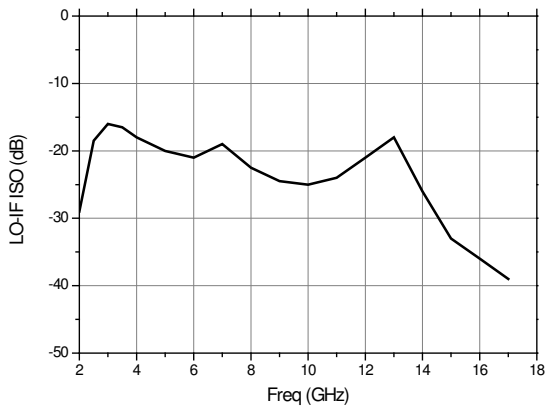
Conversion Loss



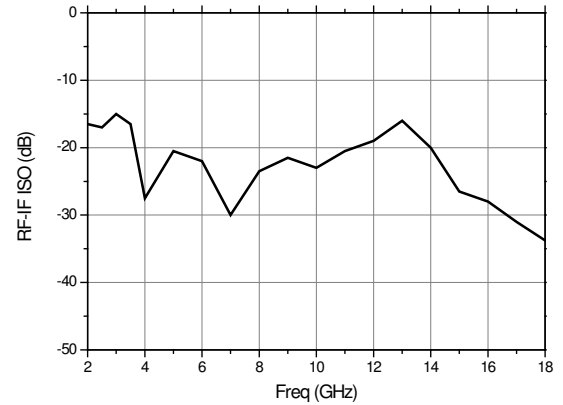
LO/RF Isolation



RF/IF Isolation



RF/IF Isolation



Assembly Diagram

