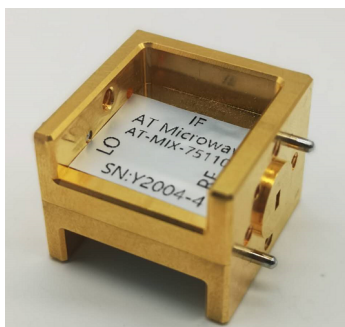


50-75GHz Balance Mixer WR-15



Description:

AT-MIX-5075H is an up and down balance mixer covering E band based on GaAs MMIC technology. IF input is balanced and can range from DC to 26GHz with SMA Female connector

LO/RF frequency range is 50-75GHz with WR-15 waveguide. LO-RF isolation features 28DB. AT-AM4-5075-13 or AT-AM6-5766-13 can be used as a LO Driver.

Feature

- ✓ RF/LO: 50-75GHz
- ✓ IF: DC-26GHz
- ✓ Low Conversion Loss
- ✓ Low LO power requirement
- ✓ High RF/LO Isolation

Application

- ✓ V band Imaging
- ✓ Automotive Test
- ✓ Test Equipment
- ✓ ROF (RF Over Fiber)
- ✓ Radar System

Electronical Specifications:

Parameter	Min	Typical	Max
RF/LO Frequency		50-75GHz	
IF Range		DC-26GHz	
Conversion Loss		-10dB	-13
LO Driver	+10	+12dBm	+16
RF/LO Isolation		-28dB	
P1dB		+8dBm	
IIP3		+15dBm	
Bias		NO	
LO/RF Port		WR-15	
IF Port		SMA Female	
Dimension(mm)		25x21.6x20	





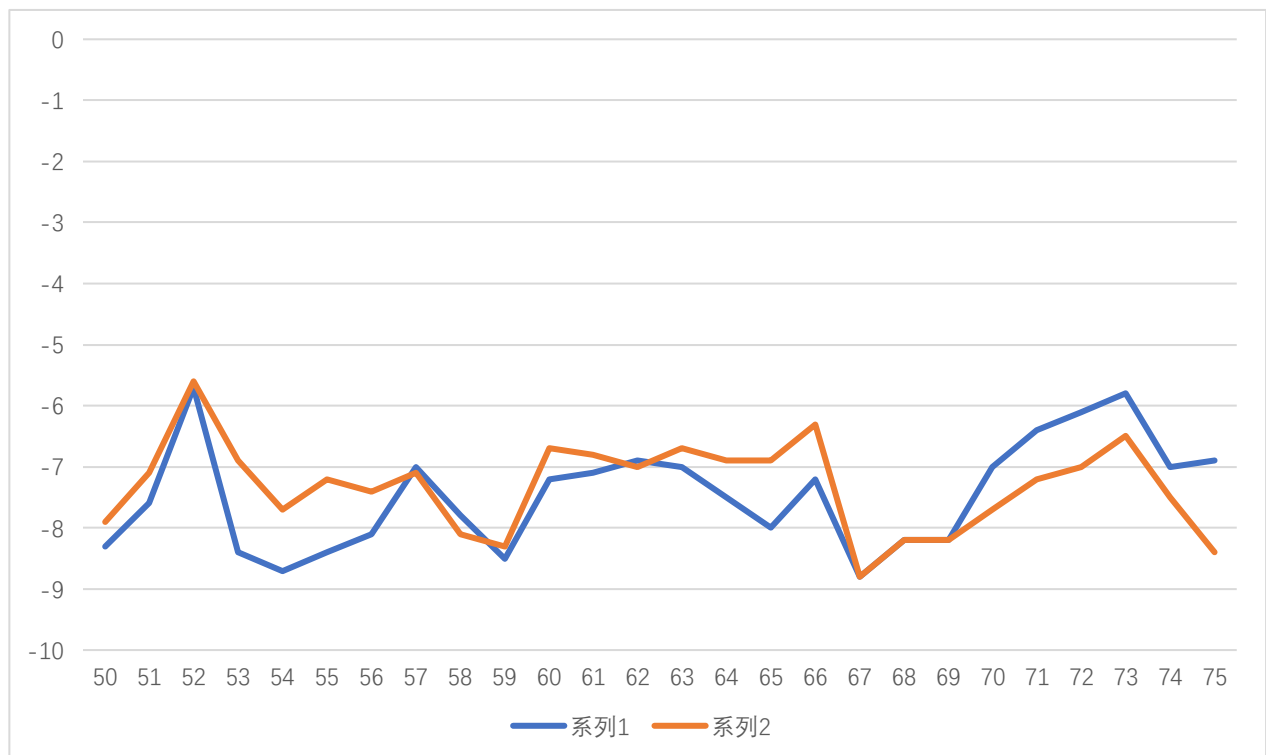
AT-MIX-5075H

Full V Band Balance Mixer

Absolute Maximum Ratings Table

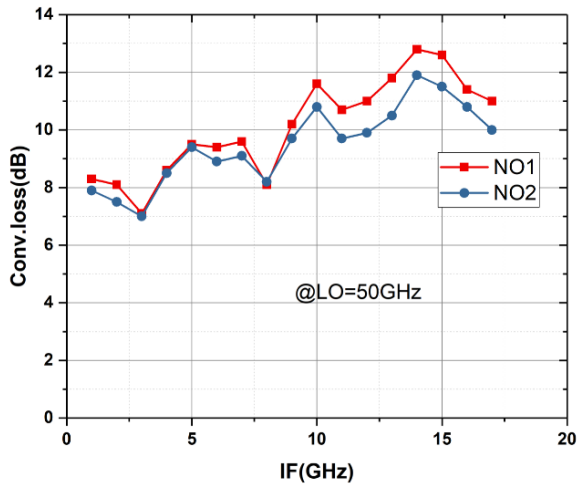
Parameter	Value
IF Power	+7dBm
RF/LO Power	+20dBm
Operating Temperature	-40 to +85C
Storage Temperature	-65 to +150C

Dimension: (25C)

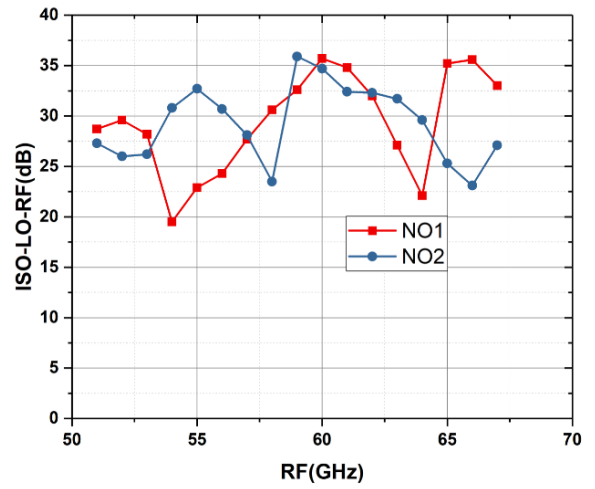


Conversion Loss vs Frequency, IF=1GHz





IF Response, LO=50GHz



LO/RF Isolation

Dimension:

