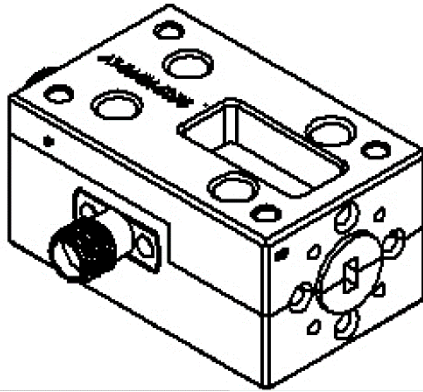


2021-3-24

50-75GHz Balance Mixer WR-15



Description:

AT-3MIX-5075 is an up and down balance mixer covering E band based on GaAs MMIC technology.

RF Port frequency range is from 50-75GHz with WR-15 waveguide. LO range is 16.5-25GHz as three times multiplier inside. IF port frequency from DC to 10GHz with SMA Female connector.

More information, please visit www.atmicrowave.com

Feature

- ✓ RF: 50-75GHz
- ✓ LO Range: 16.5-25GHz
- ✓ Low Conversion Loss
- ✓ High RF/LO Isolation

Application

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

Electronical Specifications:

Parameter	Min	Typical	Max
RF Frequency		50-75GHz	
LO Frequency		16.5-25GHz	
LO Multiplier Factor		X3	
IF Range		DC-12GHz	
Conversion Loss		-15dB	-18
LO Driver	+15	+17dBm	+20
LO-RF Isolation		-25dB	
Vdd		+5V	+8V
Idd		100mA	
Spec Temp		25C	





AT-3MIX-5075

50-75GHz V Band Balance Mixer

Mechanical Information

Item	Description
RF Port	WR-15
LO Port	2.92mm Female
IF Port	SMA Female
Case Material	Copper
Finish	Gold Plated
Weight (Without Heatsink)	30g
Size:	35x25x19mm

Absolute Maximum Ratings Table

Parameter	Value
IF Power	+7dBm
RF Power	+3dBm
LO Power	+21dBm
Vdd	+9V
Operating Temperature	0 to +50C
Storage Temperature	-65 to +150C

Notes:

1. Datasheet may be changed according to update of MMIC, Raw materials , process, and so on.
2. This data is only for reference, not for guaranteed specifications.
3. Please contact AT Microwave team to make sure you have the most current data.

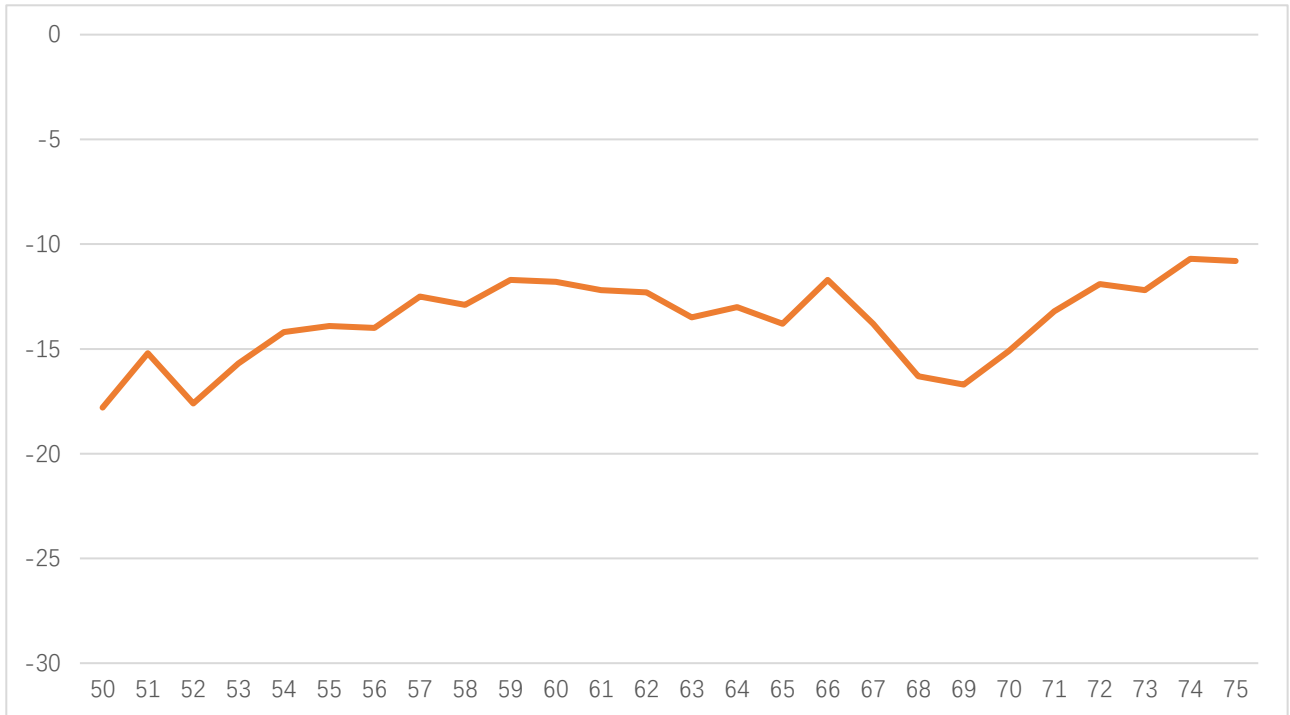




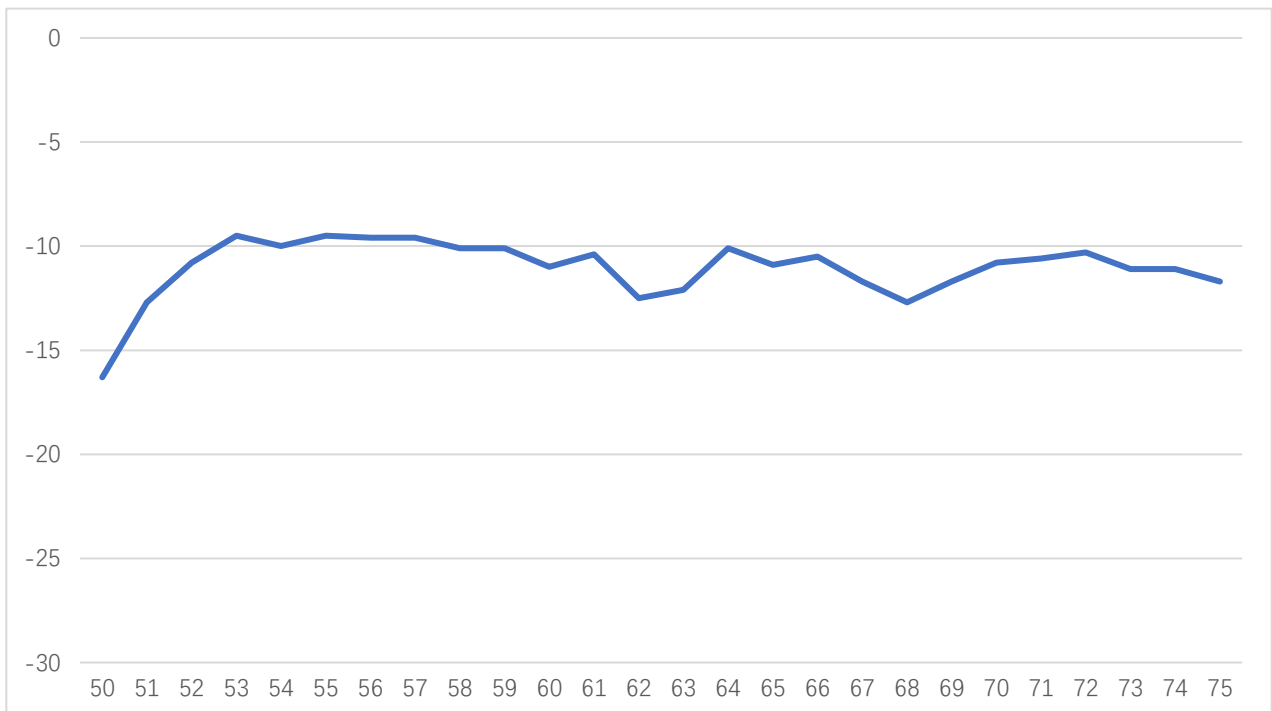
AT-3MIX-5075

50-75GHz V Band Balance Mixer

Test Data:



Conversion Loss vs Frequency, IF=1GHz



Conversion Loss vs Frequency, IF=10MHz

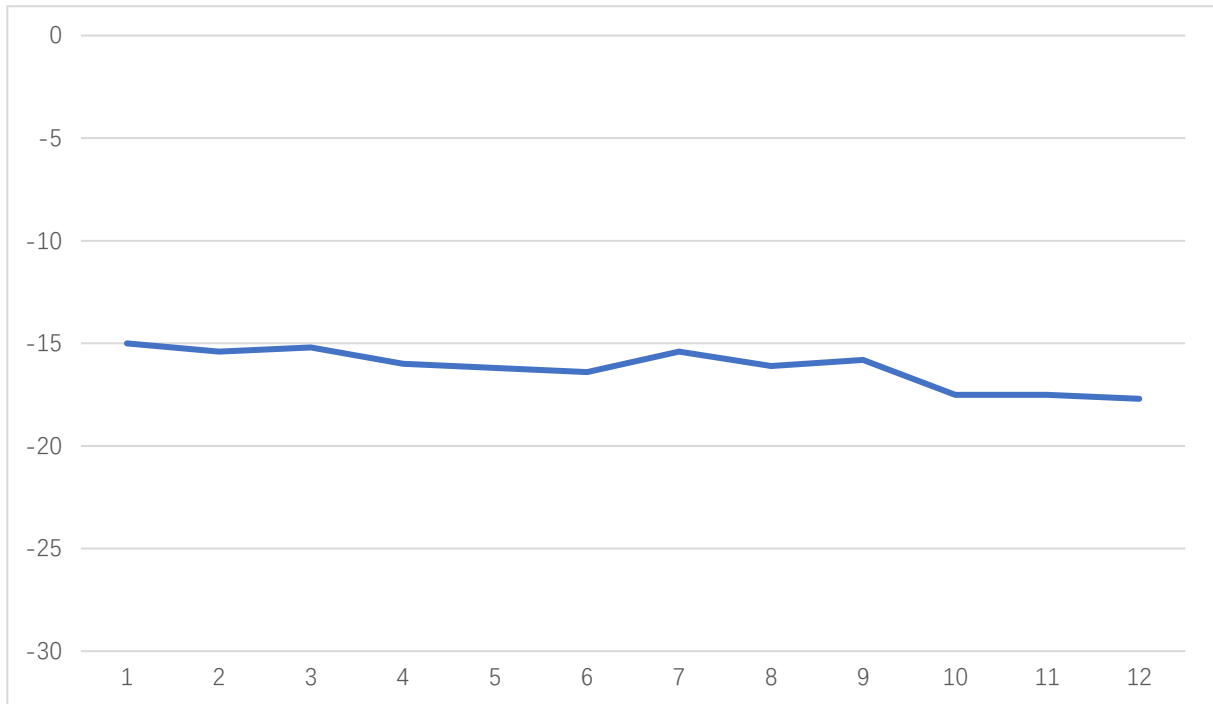
Shanghai AT Microwave Limited

Tel:021-6229 1233

Email:sales@atmicrowave.com

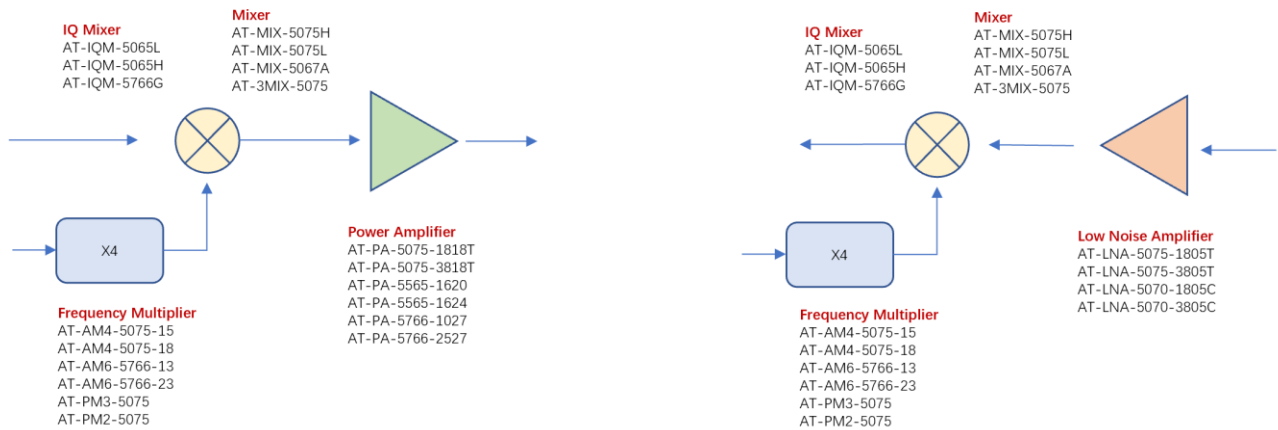
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IF Response, LO=50GHz

V Band 50-75GHz



Dimension

