Talent Microwave,Inc
+86-0512-62657975
sales@talentmw.com
www.talentmw.com

Model:TLAM-2050-0415-K

Active Multiplier
X4,20-50 GHz,+15 dBm Output Power

Feature:

- Output Frequency:20-50 GHz
- Output Power : 15 dBm Typ.
- Low power consumption
- 50 Ohm Matched Input / Output

Electrical Specifications:

Parameter		Min.	Typ.	Max.	Units
Output Frequency		20		50	GHz
Output Power			+15		dBm
Input Frequency		5		12.5	GHz
Input Power		+12		+18	dBm
DC Voltage			+12	+15	V
DC Supply Current			130		mA
Fundamental wave suppression	20-23GHz		15		dBc
	23-50GHz		20		
3rd wave suppression	20-23GHz		15		dBc
	23-50GHz		20		

Mechanical Specifications:

Parameter	Value	Units
Output Connector	2.4mm Female	
Input Connector	2.4mm Female	
Bias	Solder Pin	
Size	44.8*29.2*11	mm
Weight	/	g

Available 220V System Benchtop Amplifier

Absolute Maximum Ratings:

Parameter	Value
Supply Bias Voltage	+15V
RF Input Power	+18 dBm
ESD sensitivity (HBm)	Class 0, passed 150V

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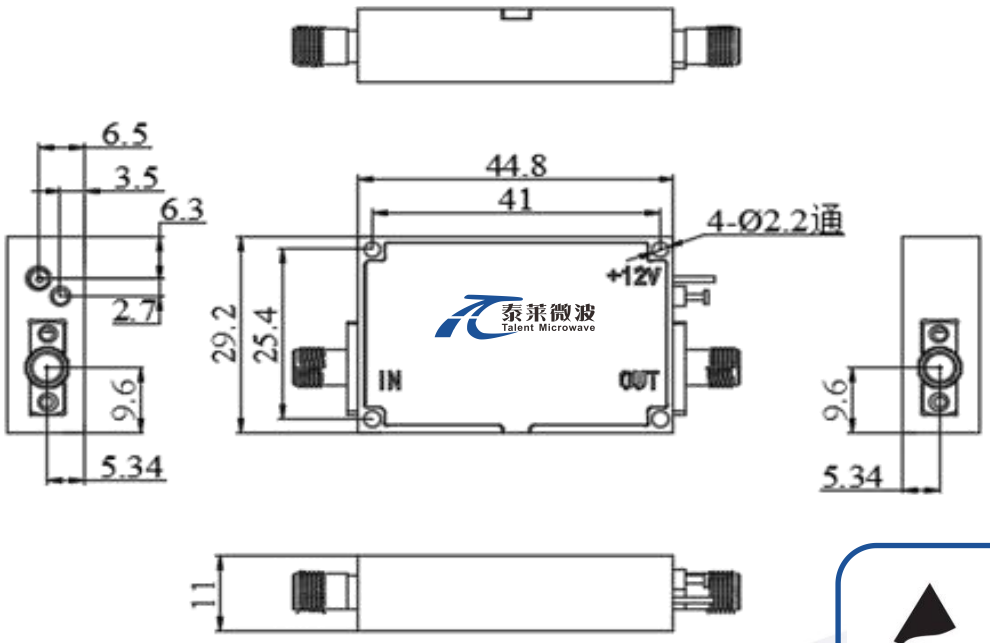
Outline Drawing:

Unit: mm



OBSERVE PRECAUTIONS
ELECTROSTATIC SENSITIVE
DEVICES

Environmental Conditions:

Parameter	Min.	Typ.	Max.	单位Units
Operating Temperature	0		+55	℃
Non-operating Temperature	-25		+65	℃
Relative humidity		95		%
Altitude	50,000			feet
Shock / Vibration(MIL-STD-810F)	25g rms (15 degree 2KHz) endurance, 1 hour per axis			
Shock(non operating)	20G for 11msc half sin wave,3 axis both directions			

Ordering Information:

Part Number	Description	Revision
TLAM-2050-0415-K	20-50 GHz X4 Active Frequency Multiplier, +15 dBm Output Power,2.4mm (F) Input Port	Rev.1.1

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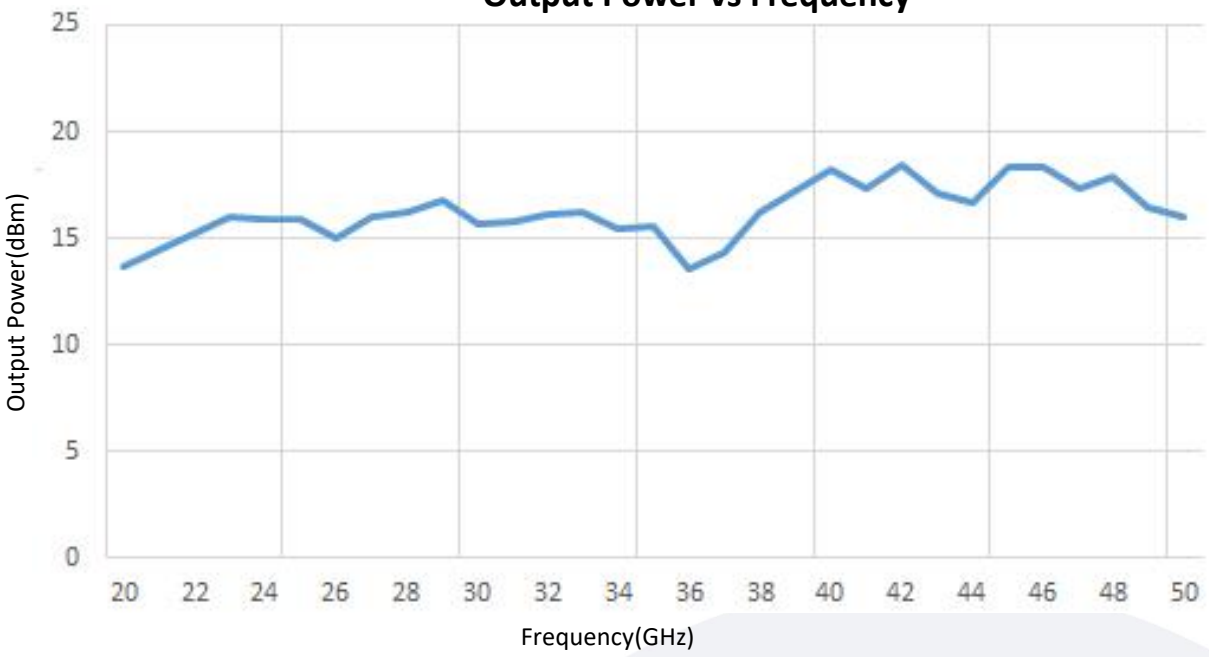
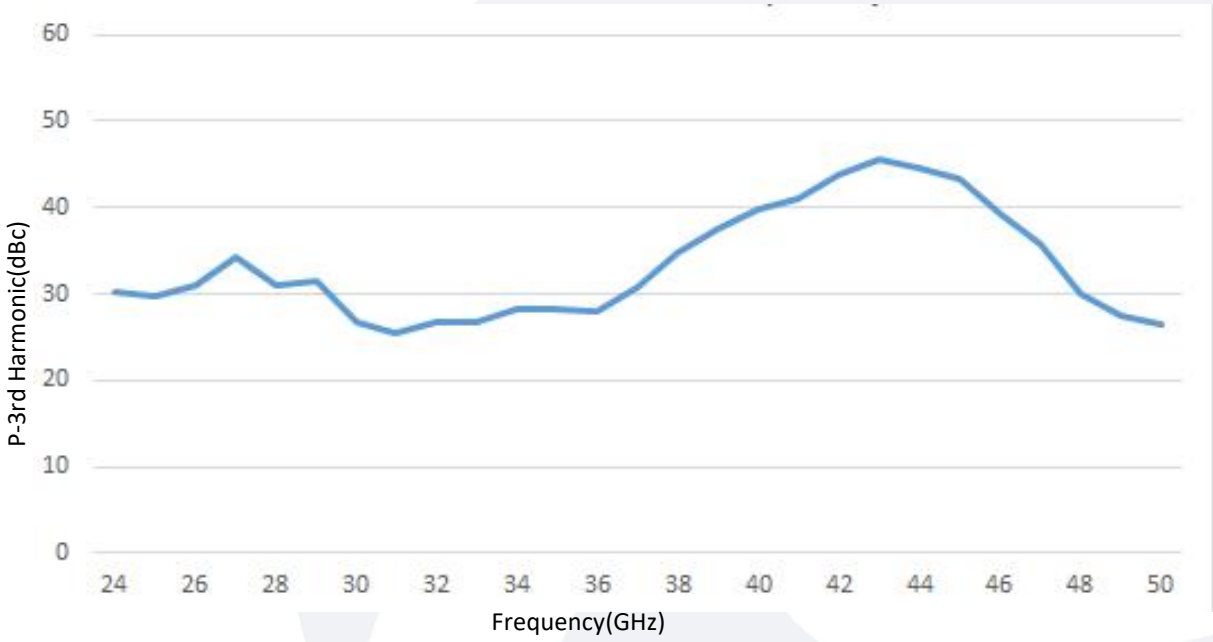
Typical Performance Data:

Output Power vs Frequency



3rd Harmonic vs Frequency



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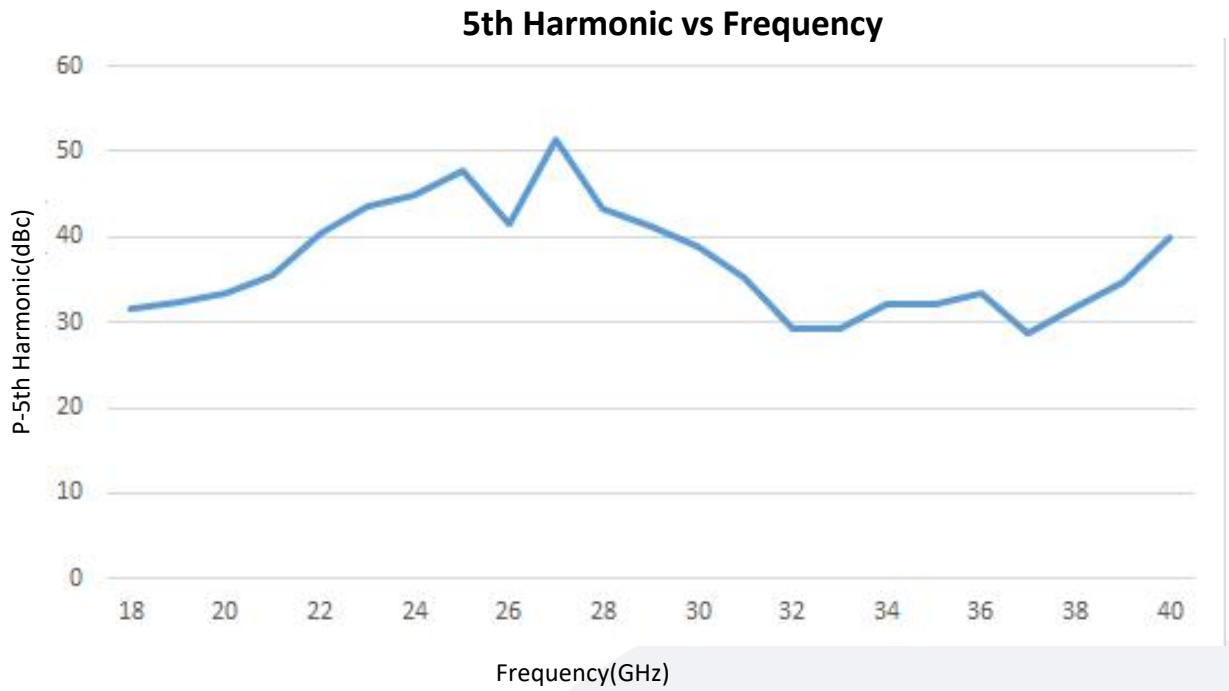
Typical Performance Data:



Notes:

1. Amplifier may be destroyed if RF Input Power and/or DC Voltage exceeds maximum rating specified above.
2. Reverse biasing will destroy the amplifier.
3. All data taken @ +23°C unless otherwise specified.
4. Ground lug and bias pins are solderable.
5. Open and short-circuit loads and not recommended at the amplifier output. Ensure proper 50 Ohm load before turning the amplifier “ON”.
6. Dimensions and specifications may be changed without prior notice.