Suzhou Talent Microwave,Inc
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Active Frequency Multiplier

X2/40-67GHz/15dBm Output Power

Model: TLAM-040067-0219-1.85

TLAM-040067-0219-1.85 is an active X2 frequency multiplier. The multiplier has an input frequency of 20 to 33.5 GHz with a typical input power of -1 dBm and an output frequency of 40 to 67 GHz with a typical output power of +15 dBm. The DC power requirement for the multiplier is +12V DC/150 mA. The input port configuration is female 2.92mm connector and output port configuration is female 1.85mm connector.

Features:

- Output Frequency: 40-67GHz
- Output Power: 15dBm Typ
- Low power consumption
- 50 Ohm Matched Input / Output

Applications:

- Synthesizers
- Local oscillators

Electrical Characteristics:

Parameter	Min	Typ	Max	Units
Output Frequency	40		67	GHz
Output Power		15		dBm
Input Frequency	20		33.5	GHz
Input Power		-1		dBm
Multiply Factor		2		
Harmonic Suppression		20		dBc
DC Voltage		12		V
DC Supply Current		150		mA

Mechanical Specifications:

Parameter	Value	Units
Output Connector	1.85mm Female	
Input Connector	2.92mm Female	
DC Bias	Solder Pin	
Size	46*30*15	mm

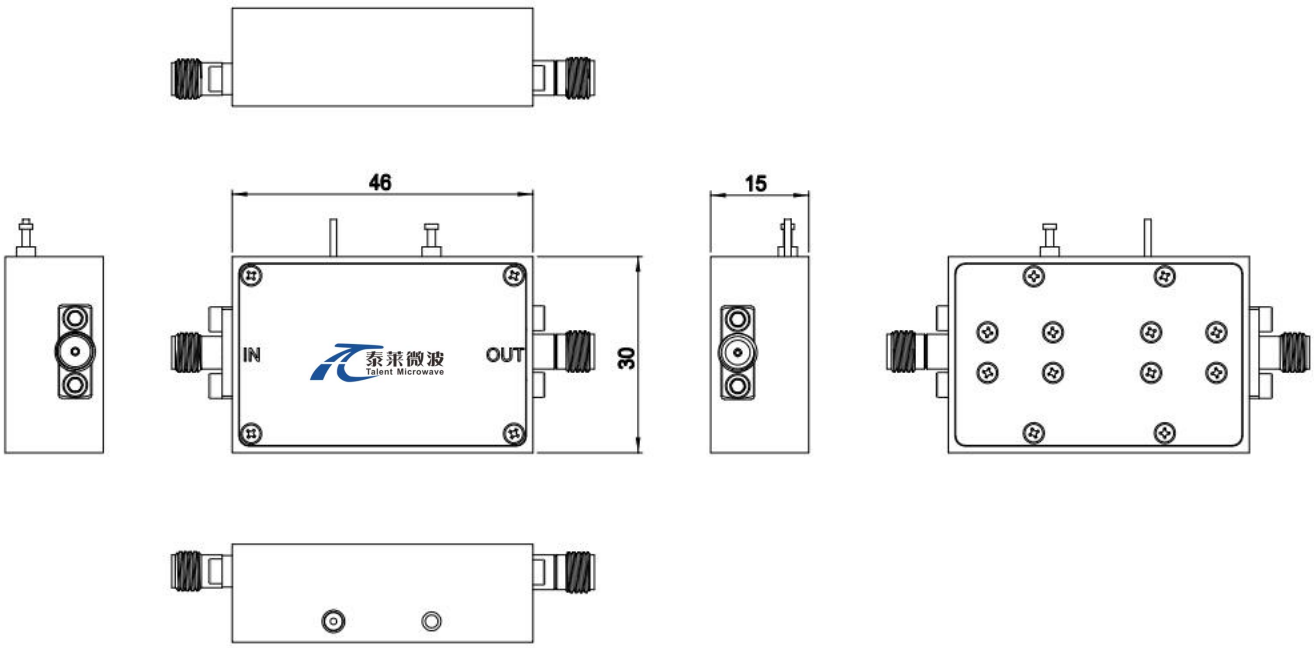
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Absolute Maximum Ratings:

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

Outline Drawing:

Unit:mm; Tolerance:±0.1mm



ESD Protection: Strictly adhere to ESD precautions to prevent electrostatic damage.

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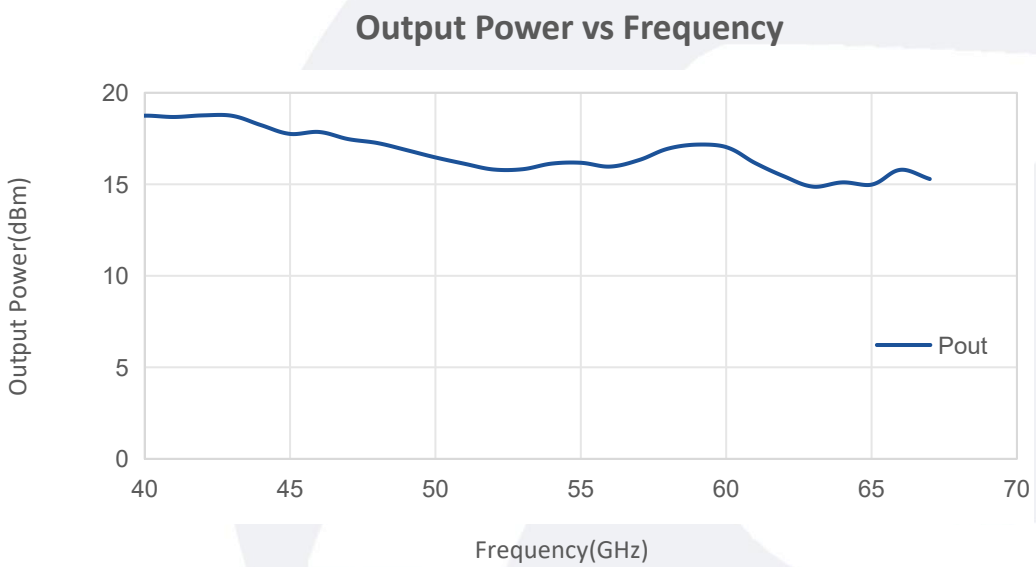
Environmental Conditions:

Parameter	Min	Typ	Max	Units
Operating Temperature	-40		+70	℃
Non-operating Temperature	-55		+85	℃
Relative humidity		95		%
Altitude	10,000			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:

Base Number	Description	Revision
TLAM-040067-0219-1.85	Active Multiplier,X2, 40-67GHz , +15dBm Output Power,1.85mm Female	Rev.1.0

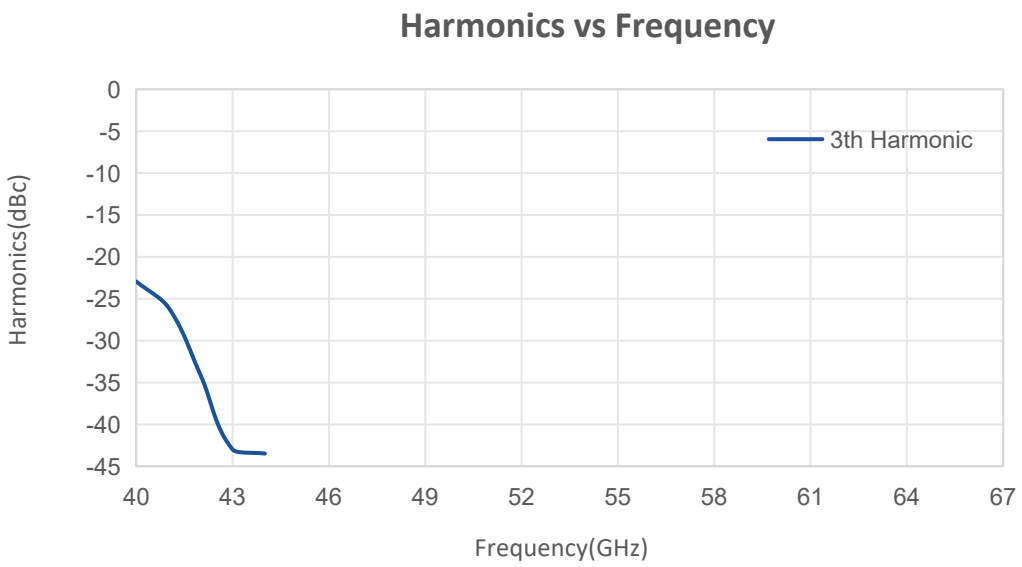
Typical Performance Data:



Note: Above data is for ref only, actual data may vary from unit to unit depending on operating environment and other factors like material lots etc.

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