

Active Frequency Multiplier

X2/10-30GHz /15dBm Output Power

Model: TLAM-1030-0215-S

TLAM-1030-0215-S is an active X2 frequency multiplier. The multiplier has an input frequency of 5 to 15 GHz with a typical input power of 2 dBm and an output frequency of 10 to 30 GHz with a typical output power of +15 dBm. The DC power requirement for the multiplier is +8 V DC/60 mA. The input port configuration is female SMA connector. The output port configuration is female 2.92mm connector.

Features:

- Output Frequency: 15-30GHz
- 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	10		30	GHz
Output Power		+15		dBm
Input Frequency	5		15	GHz
Input Power	-5	2	+5	dBm
Multiply Factor		2		
1st Harmonic		15		dBc
3rd Harmonic		20		dBc
DC Voltage		+8		V
DC Supply Current		60		mA

Mechanical Specifications:

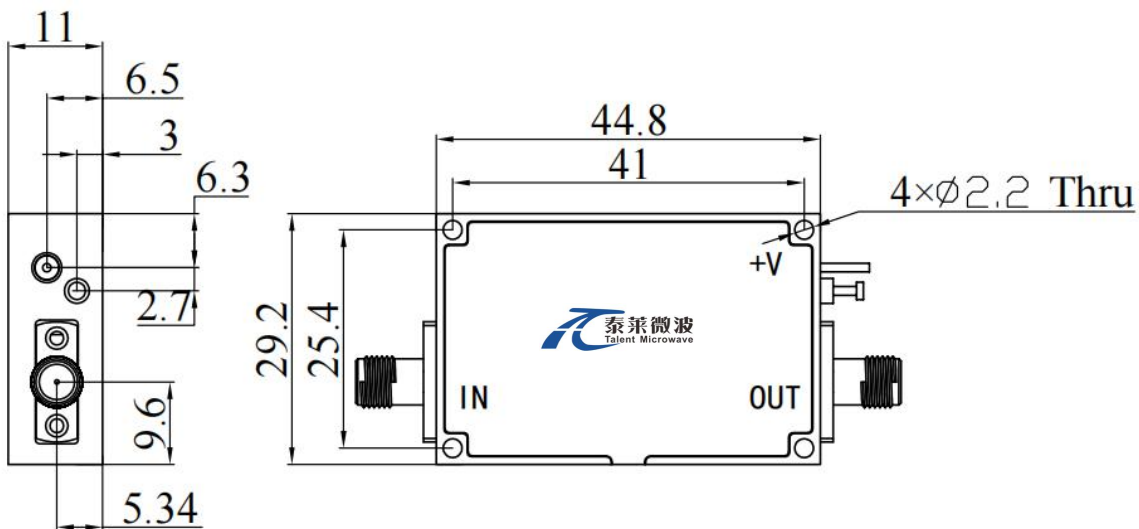
Parameter	Value	Units
Output Connector	2.92mm Female	
Input Connector	SMA Female	
DC Bias	Solder Pin	
Size	44.8*29.2*11	mm

Absolute Maximum Ratings:

Parameter	Value
Supply Bias Voltage	+12 V
RF Input Power	+10 dBm
ESD sensitivity (HBm)	Class 0, passed 150V

Outline Drawing:

Unit:mm



*****Heat Sink Required During Operation**



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

Environmental Conditions:

Parameter	Min	Typ	Max	Units
Operating Temperature	-10		+65	°C
Non-operating Temperature	-45		+85	°C
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-1030-0215-S	Active Multiplier X2,10-30 GHz ,+15 dBm Output Power,	Rev.1.0