

Active Frequency Multiplier

1.85mm/X3/36-57GHz /27dBm Output Power

Model: TLAM-036057-0327-V

TLAM-036057-0327-V is an active X4 frequency multiplier. The multiplier has an input frequency of 12 to 19 GHz with a typical input power of +5 dBm and an output frequency of 36 to 57 GHz with a typical output power of +27 dBm. The DC power requirement for the multiplier is +12 V DC/580 mA. The input port configuration is a female SMA connector and the output port configuration is a female 1.85mm connector.

Features:

- Output Frequency:36-57GHz
- Output Power :27dBm Typ
- Low power consumption

Applications:

- Frequency Extenders
- THz Systems

Electrical Characteristics:

Parameter	Min	Typ	Max	Units
Output Frequency	36		57	GHz
Output Power		27		dBm
Input Frequency	12		19	GHz
Input Power	3	5	7	dBm
Multiply Factor		3		
DC Voltage		12		V
DC Supply Current		580		mA

Mechanical Specifications:

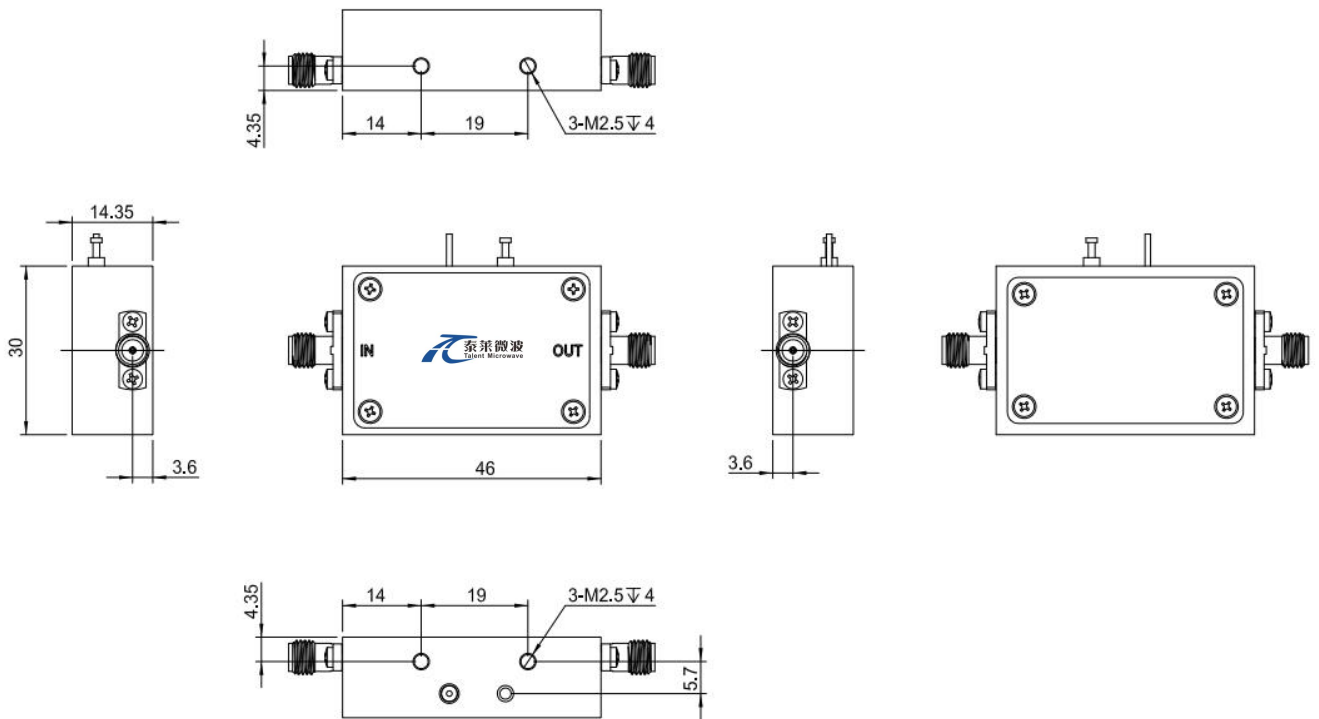
Parameter	Value	Units
Output Connector	1.85mm Female	
Input Connector	SMA Female	
DC Bias	Solder Pin	
Size	46*30*14	mm

Absolute Maximum Ratings:

Parameter	Value
Supply Bias Voltage	+15 V
RF Input Power	+10 dBm
ESD sensitivity (HBm)	Class 0, passed 150V

Outline Drawing:

Unit:mm



Environmental Conditions:

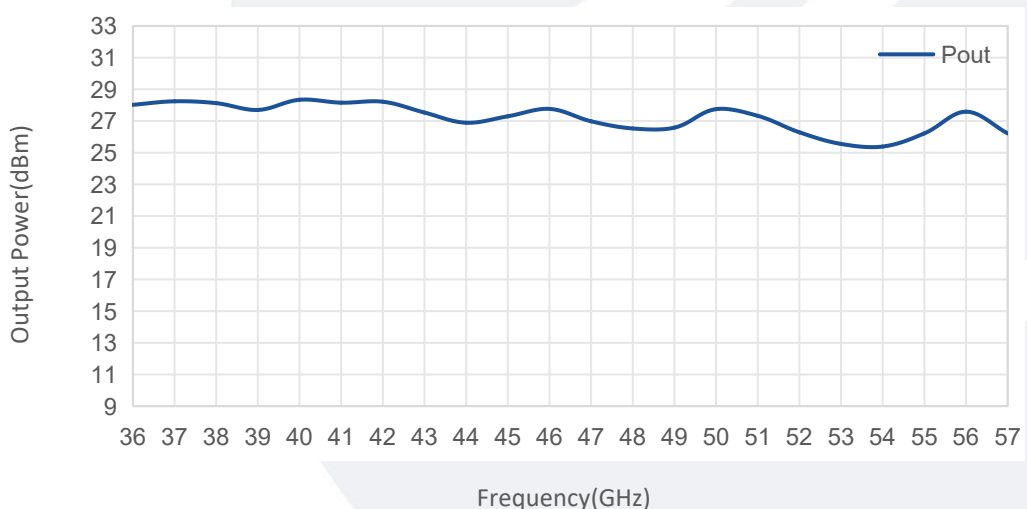
Parameter	Min	Typ	Max	Units
Operating Temperature	-10		+65	°C
Non-operating Temperature	-45		+85	°C
Relative humidity		95		%
Altitude	50,000			feet
Shock / Vibration(MIL-STD-810F)	25g rms (15 degree 2KHz) endurance, 1 hour per axis			
Shock(non operating)	20G for 11msc half sin wave,3 axis both directions			

Ordering Information:

Base Number	Description	Revision
TLAM-036057-0327-V	Active Multiplier,X3,36-57GHz, Output Power:27dBm,1.85mm Female,SMA Female	Rev.1.1

Typical Performance Data:

Output Power vs Frequency



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.