

Active Frequency Multiplier

X6/60MHz/10dBm Output Power

Model: TLAM-60M-0610-S

TLAM-60M-0610-S is an active X6 frequency multiplier. The multiplier has an input frequency of 10MHz with a typical input power of -20 dBm and an output frequency of 60MHz with a typical output power of +10 dBm. The DC power requirement for the multiplier is +12V DC/120 mA. The input and output port configuration are female SMA connector.

Features:

- Output Frequency: 60MHz
- Output Power: 10dBm Typ
- Low power consumption
- 50 Ohm Matched Input / Output

Applications:

- Synthesizers
- Local oscillators

Electrical Characteristics:

Parameter	Min	Typ	Max	Units
Output Frequency		60		MHz
Output Power		10		dBm
Input Frequency		10		MHz
Input Power		-20		dBm
Multiply Factor		6		
DC Voltage	8	12	15	V
DC Supply Current		120		mA

Mechanical Specifications:

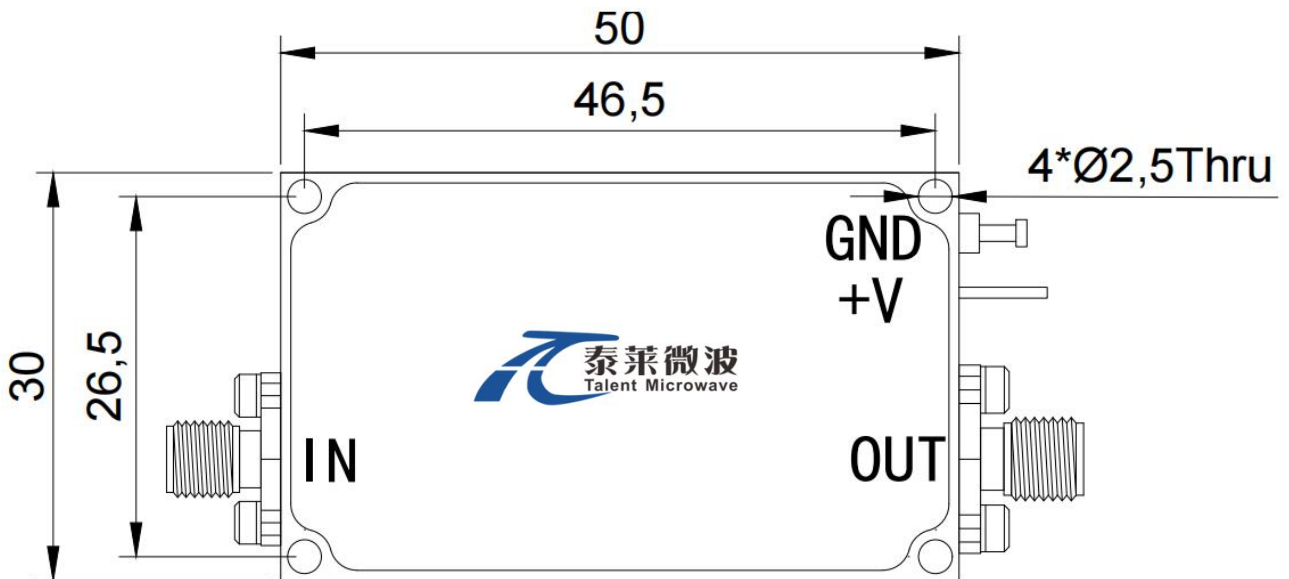
Parameter	Value	Units
Output Connector	SMA Female	
Input Connector	SMA Female	
DC Bias	Solder Pin	
Size	50*30*10	mm

Absolute Maximum Ratings:

Parameter	Value
Supply Bias Voltage	+15 V
RF Input Power	0 dBm
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.

Environmental Conditions:

Parameter	Min	Typ	Max	Units
Operating Temperature	-45		+85	°C
Non-operating Temperature	-55		+125	°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-60M-0610-S	Active Multiplier,X6, 60MHz , +10dBm Output Power, SMA Female	Rev.1.0