

Active Frequency Multiplier

X3/22-40GHz/5dBm Output Power

Model: TLAM-2240-0305-K

TLAM-2240-0305-K is an active X3 frequency multiplier. The multiplier has an input frequency of 7.33 to 13.34 GHz with a typical input power of 0 dBm and an output frequency of 22 to 40 GHz with a minimum output power of +5 dBm. The DC power requirement for the multiplier is +12V DC/120 mA. The input port configuration is female SMA connector and output port configuration is female 2.92mm connector.

Features:

- Output Frequency: 22-40GHz
- Output Power: 5dBm Min
- Low power consumption
- 50 Ohm Matched Input / Output

Applications:

- Synthesizers
- Local oscillators

Electrical Characteristics:

Parameter	Min	Typ	Max	Units
Output Frequency	22		40	GHz
Output Power	3			dBm
Input Frequency	7.33		13.34	GHz
Input Power	-4	0	10	dBm
Multiply Factor		3		
DC Voltage	8	12	15	V
DC Supply Current		120		mA

Mechanical Specifications:

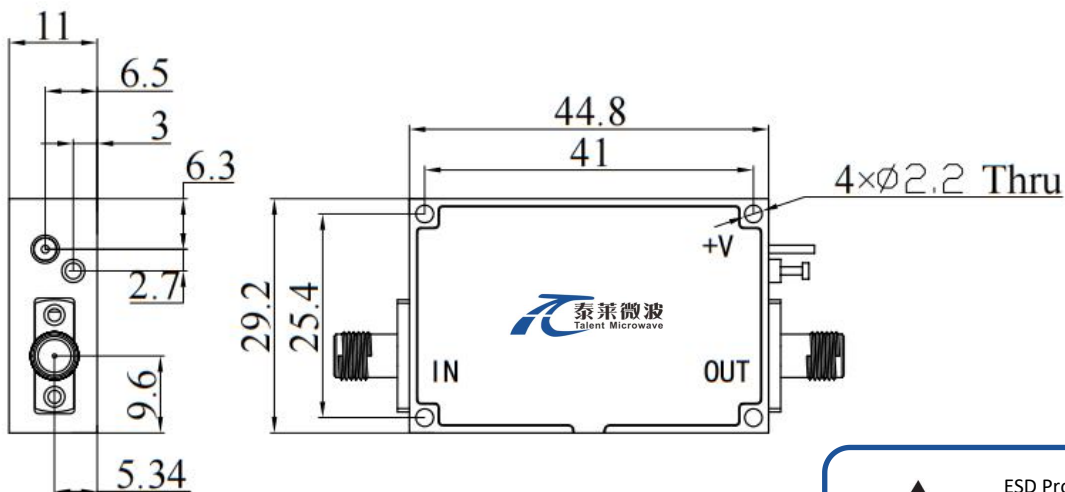
Parameter	Value	Units
Output Connector	2.92mm Female	
Input Connector	SMA Female	
DC Bias	Solder Pin	
Size	44.8*29.2*11	mm

Absolute Maximum Ratings:

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

Outline Drawing:

Unit:mm



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-2240-0305-K	Active Multiplier,X3, 22-40GHz , +5dBm Output Power,2.92mm Female	Rev.1.0