

E-Band, Active Frequency Multiplier

WR-12/X6/60-90GHz /0dBm Output Power

Model: TMAM-060090-0600-12

TMAM-060090-0600-12 is an active X6 frequency multiplier. The multiplier has an input frequency of 10 to 15 GHz with a typical input power of +5 dBm and an output frequency of 60 to 90 GHz with a typical output power of +0 dBm. The DC power requirement for the multiplier is +12 V DC. The input port configuration is a female SMA connector and the output is a WR-12 waveguide with a UG-387/U-M anti-cocking flange.

Features:

- Output Frequency:60-90GHz
- Output Power :0 dBm Typ
- Low power consumption

Applications:

- Frequency Extenders
- THz Systems

Electrical Characteristics:

Parameter	Min	Typ	Max	Units
Output Frequency	60		90	GHz
Output Power		0		dBm
Input Frequency	10		15	GHz
Input Power	3	5	7	dBm
Multiply Factor		6		
Harmonic Suppression	20			dBc
DC Voltage		12		V

Mechanical Specifications:

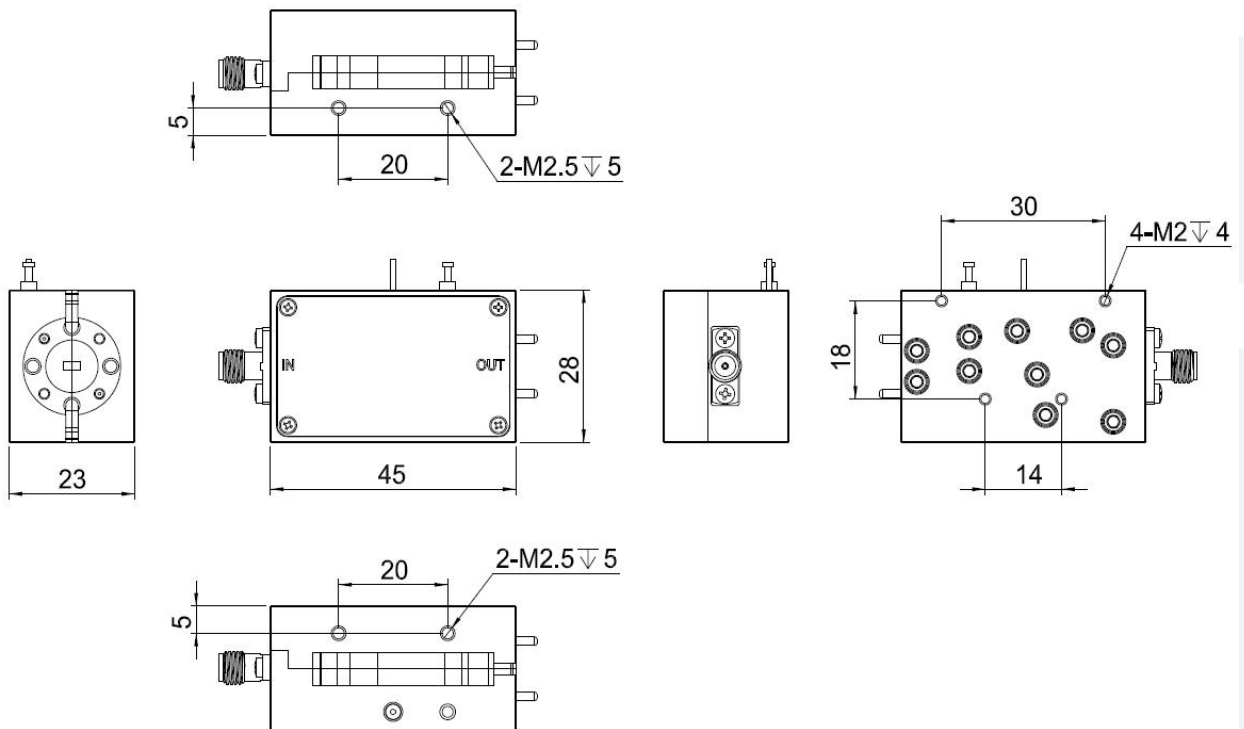
Parameter	Value	Units
Output Connector	WR-12/UG-387/U	
Input Connector	SMA Female	
DC Bias	Solder Pin	

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



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	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
TMAM-060090-0600-12	Active Multiplier,X6,60-90GHz, Output Power:0dBm,WR-12/UG-387/U,SMA Female	Rev.1.1