

Active Frequency Multiplier

WR-10/X8/70-115GHz/14dBm Output Power

Model: TMAM-070115-0814-10-E

TMAM-070115-0814-10-E is an active X8 frequency multiplier. The multiplier has an input frequency of 8.75 to 14.375 GHz with a typical input power of +0 dBm and an output frequency of 70 to 115 GHz with a typical output power of +14 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-10 waveguide with a UG-387/U-M anti-cocking flange.

Features:

- Output Frequency: 70-115GHz
- Output Power: 14dBm Typ
- Low power consumption

Applications:

- Frequency Extenders
- THz Systems

Electrical Characteristics:

Parameter	Min	Typ	Max	Units
Output Frequency	70		115	GHz
Output Power		14		dBm
Input Frequency	8.75		14.375	GHz
Input Power	-4		0	dBm
Multiply Factor		8		
Harmonic Suppression		12		dBc
DC Voltage		12		V

Mechanical Specifications:

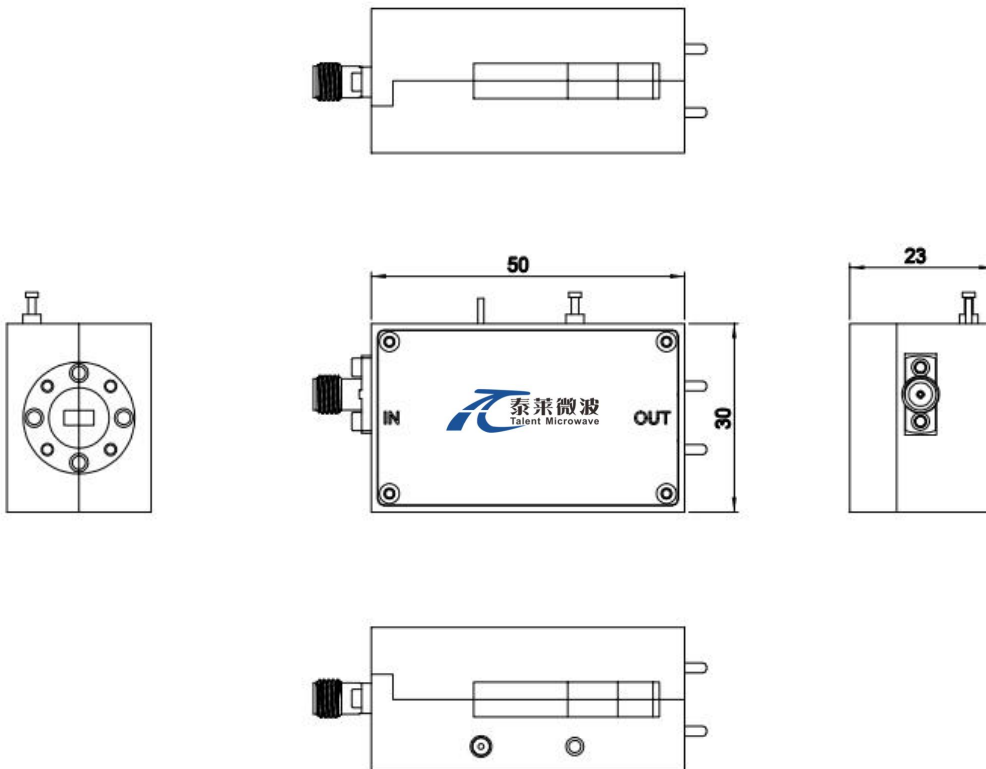
Parameter	Value	Units
Output Connector	WR-10/UG-387/U	
Input Connector	SMA Female	
DC Bias	Solder Pin	
Size	50*30*23	mm

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; Tolerance:±0.1mm



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-070115-0814-10-E	Active Multiplier, X8, 70-115GHz, Output Power:14dBm,WR-10/UG-387/U,SMA Female	Rev.1.0