

Model:TMAM-110170-1204-06

D-Band Active Multiplier, X12,110-170 GHz, 4 dBm Output Power

Feature:

- Output Frequency:110-170 GHz
- Output Power : 4 dBm Typ
- Low power consumption

Electrical Specifications:

Parameter	Min	Typ	Max	Units
Output Frequency	110		170	GHz
Output Power		4		dBm
Input Frequency	9.16		14.17	GHz
Input Power		5	10	dBm
Multiply Factor		12		
Harmonics		-20		dBc
Input VSWR		2		:1
Output VSWR		2		:1
DC Voltage	12			V
DC Supply Current		150		mA

Mechanical Specifications:

Parameter	Value	Units
Output Connector	WR-06/UG-387/U	
Input Connector	SMA Female	
DC Bias	Solder Pin	
Size	84.15*36*24	mm

Absolute Maximum Ratings:

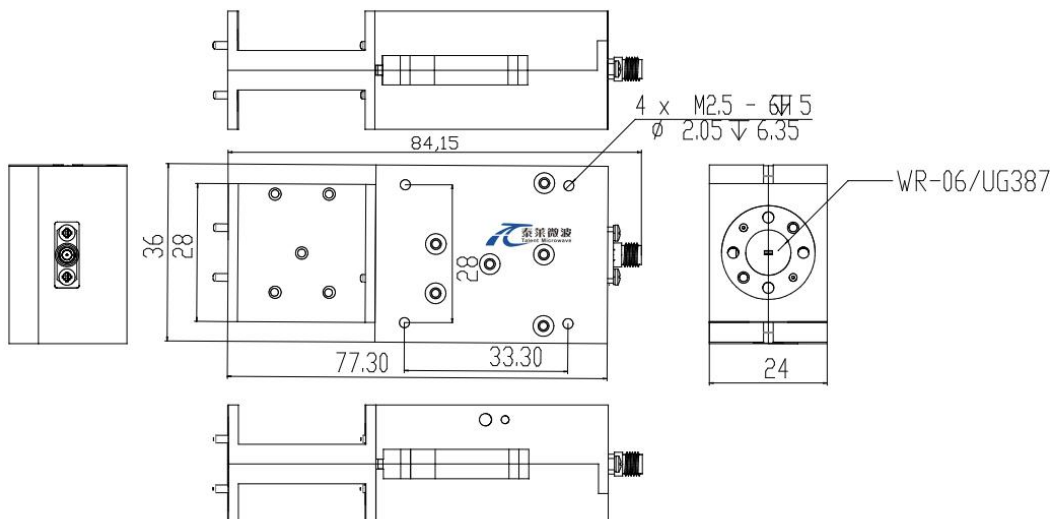
Parameter	Value
Supply Bias Voltage	+13 V
RF Input Power	+10 dbm
ESD sensitivity (HBm)	Class 0, passed 150V



Available 220V System
Benchtop Amplifier

Outline Drawing:

Unit: mm



OBSERVE PRECAUTIONS
ELECTROSTATIC SENSITIVE
DEVICES

Environmental Conditions:

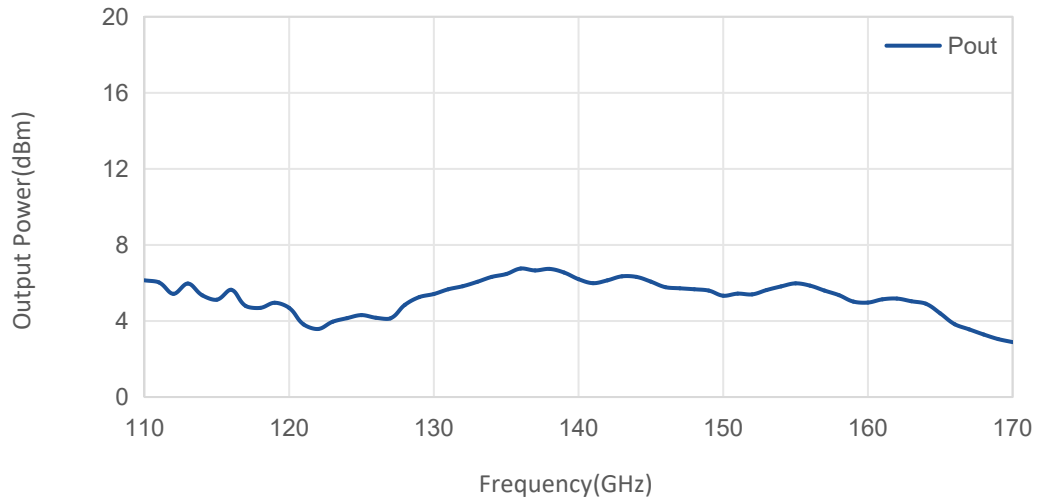
Parameter	Min	Typ	Max	Units
Operating Temperature	-10		+65	°C
Non-operating Temperature	-55		+85	°C
Relative humidity		95		%
Altitude		10,000		feet
Shock / Vibration(MIL-STD-810F)	25g rms (15 degree 2KHz) endurance, 1 hour per axis			
Shock(non operating)	20G for 11msc half sin wave,3 axis both directions			

Ordering Information:

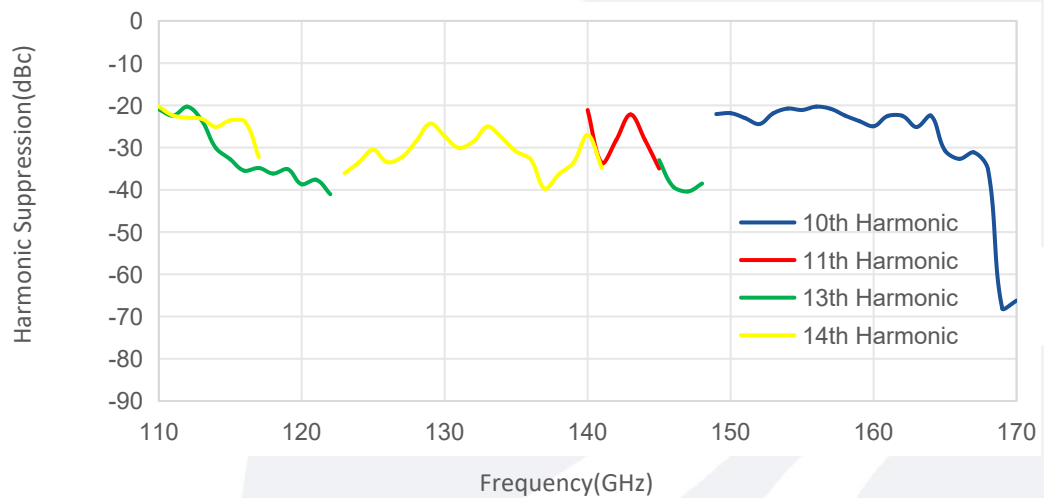
Part Number	Description	Revision
TMAM-110170-1204-06	Active Multiplier,X12,110-170GHz, Output Power:4dBm,WR-06/UG-387/U,SMA Female	Rev.1.1

Typical Performance Data:

Output Power vs Frequency



Harmonic Suppression 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.