

Model:TMAM-080086-0627-12

Active Frequency Multiplier, X6,80-86GHz, 27dBm Output Power

Feature:

- Output Frequency:80-86GHz
- Output Power :27 dBm Typ
- Low power consumption



Electrical Specifications:

Parameter	Min	Typ	Max	Units
Output Frequency	80		86	GHz
Output Power	26	27		dBm
Input Frequency	13.3		14.33	GHz
Input Power	2	4	8	dBm
Multiply Factor		6		
Input Return Loss		10		dB
Output Return Loss		8		dB
DC Voltage	+18			V
Quiescent Current		330		mA
DC Supply Current		680		mA

Mechanical Specifications:

Parameter	Value	Units
Output Connector	WR-12/UG-387/U	
Input Connector	SMA Female	
DC Bias	Solder Pin	
Size	56*83.6*68(Without Heatsink) 56*95.6*68(With Heatsink)	mm

Absolute Maximum Ratings:

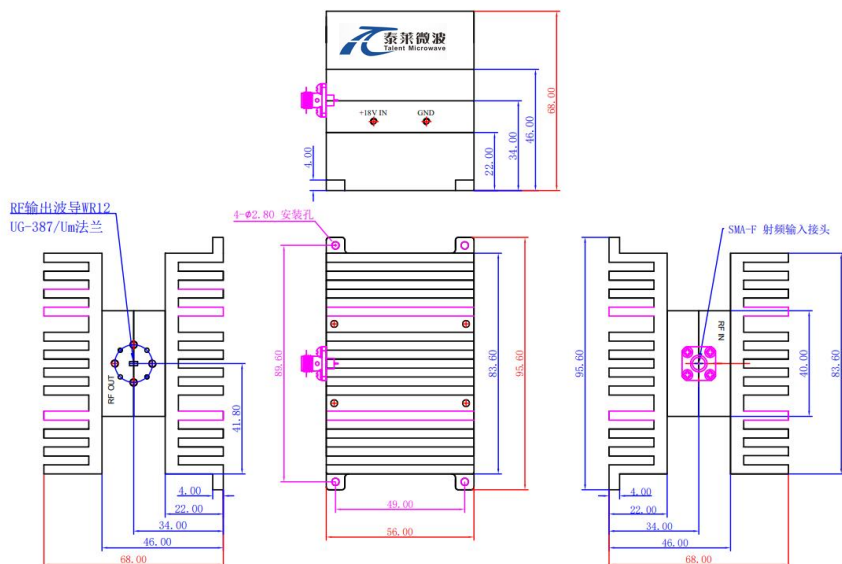
Parameter	Value
Supply Bias Voltage	TBD
RF Input Power	8dBm
ESD sensitivity (HBm)	Class 0, passed 150V



Available 220V System
Benchtop Amplifier

Outline Drawing:

Unit: mm



OBSERVE PRECAUTIONS
ELECTROSTATIC SENSITIVE
DEVICES

Environmental Conditions:

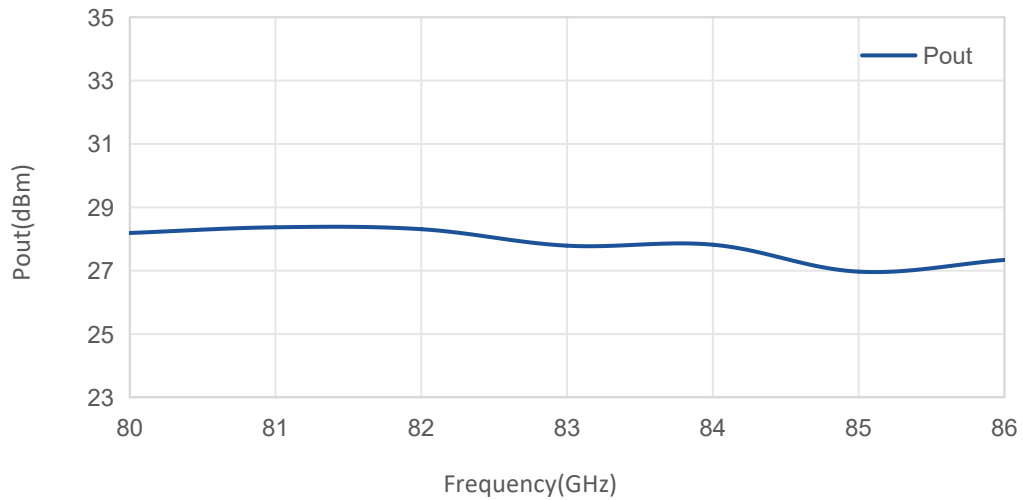
Parameter	Min	Typ	Max	Units
Operating Temperature	-10		+65	°C
Non-operating Temperature	-45		+85	°C
Relative humidity		95		%
Altitude	50,000			feet
Shock / Vibration(MIL-STD-810F)	25g rms (15 degree 2KHz) endurance, 1 hour per axis			
Shock(non operating)	20G for 11msc half sin wave,3 axis both directions			

Ordering Information:

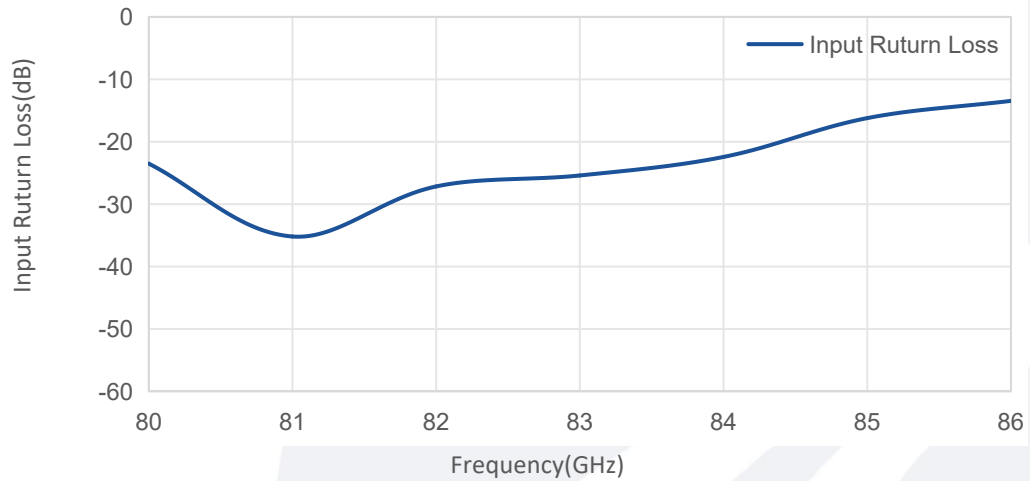
Part Number	Description	Revision
TMAM-080086-0627-12	Active Multiplier,X6,80-86GHz, Output Power:27dBm,WR-12/UG-387/U,SMA Female	Rev.1.1

Typical Performance Data:

Output Power vs Frequency



Input Return Loss 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.