

**Model:TMPM-150175-0220-05**
**Passive Frequency Tripler  
 X2,150-175 GHz,20 dBm Output Power**
**Feature:**

- Output Frequency:150-175 GHz
- Output Power:20 dBm Typ
- Compactness,High Power&Efficiency

**Electrical Specifications:**

Parameter	Min	Typ	Max	Units
Output Frequency	150	170	175	GHz
Input Frequency	75	85	87.5	dBm
Output Power		20		dBm
Input Power		27	28	dBm
Multiply Factor		2		
Harmonic		-20		dBc
Bias Voltage	0	-16	-20	V

**Mechanical Specifications:**

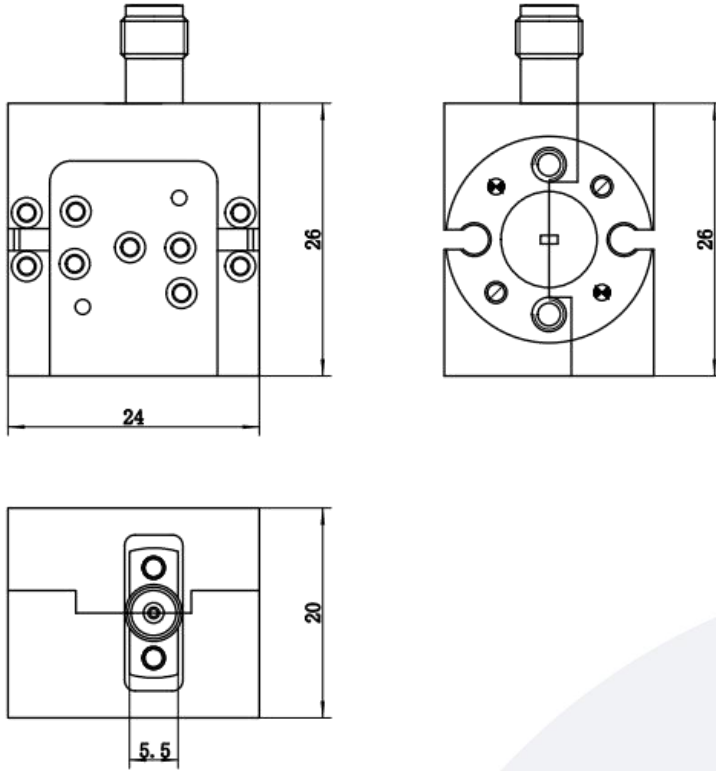
Parameter	Value	Units
Output Connector	WR-5.1/UG-387/U	
Input Connector	WR-10/UG-387/U	
Interface	SMA-K	
Size	24*26*20	mm

**Absolute Maximum Ratings:**

Parameter	Value
RF Input Power	28 dBm
ESD sensitivity (HBm)	Class 0, passed 150V

**Outline Drawing:**

Unit: mm



**Environmental Conditions:**

Parameter	Min	Typ	Max	Units
Operating Temperature	0		+50	°C
Non-operating Temperature	-25		+65	°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
TMPM-150175-0220-05	Passive Frequency Tripler X2,150-175GHz, 20dBm Output Power,WR-5.1	Rev.1.1

Typical Performance Data:

### Pout vs Frequency

Test: Pin=26dBm, 170GHz X2, Vbias=-16V

