

Passive Frequency Multiplier

WR-06/X2/142-156GHz /18dBm Output Power

Model: TMPM-142156-0218-06

TMPM-142156-0218-06 is a WR-06 X2 passive multiplier that generates second order harmonics with good harmonic and fundamental suppression. This multiplier requires an input frequency range of 71 to 78 GHz at +27 dBm RF power to yield typical +18 dBm output power at 142 to 156 GHz. The multiplier is equipped with a WR-12 waveguide and UG-387/U-M flange as its input port and a WR-06 waveguide and UG-387/U-M flange as its output port.

Features:

- Output Frequency:142-156 GHz
- Output Power : 18 dBm Typ
- Compactness,High Power&Efficiency

Applications:

- Frequency Extenders
- THz Systems
- Source Modules

Electrical Characteristics:

Parameter	Min	Typ	Max	Units
Output Frequency	142		156	GHz
Input Frequency	71		78	GHz
Output Power		18		dBm
Input Power			26	dBm
Multiply Factor		2		

Mechanical Specifications:

Parameter	Value	Units
Output Connector	WR-06/UG-387/U	
Input Connector	WR-12/UG-387/U	
Size	17.5*19*19	mm

Absolute Maximum Ratings:

Parameter	Value
RF Input Power	+26 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	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:

Base Number	Description	Revision
TMPM-142156-0218-06	Passive Frequency Tripler X2,142-156 GHz, 18dBm Output Power,WR-06	Rev.1.1