

## Active Frequency Multiplier

WR-15/X4/65-75GHz/16dBm Output Power

Model: TMAM-065075-0410-15

TMAM-065075-0410-15 is an active X4 frequency multiplier. The multiplier has an input frequency of 16.25 to 18.75 GHz with a typical input power of +5 dBm and an output frequency of 65 to 75 GHz with a typical output power of +16 dBm. The DC power requirement for the multiplier is +12 V DC/160 mA. The input port configuration is a female SMA connector and the output is a WR-15 waveguide with a UG-385/U-M anti-cocking flange.

### Features:

- Output Frequency: 65-75GHz
- Output Power: 16dBm Typ
- Low power consumption

### Applications:

- Frequency Extenders
- THz Systems

### Electrical Characteristics:

Parameter	Min	Typ	Max	Units
Output Frequency	65		75	GHz
Output Power		16		dBm
Input Frequency	16.25		18.75	GHz
Input Power	3	5	7	dBm
Multiply Factor		4		
DC Voltage		12		V
DC Supply Current		160		mA

### Mechanical Specifications:

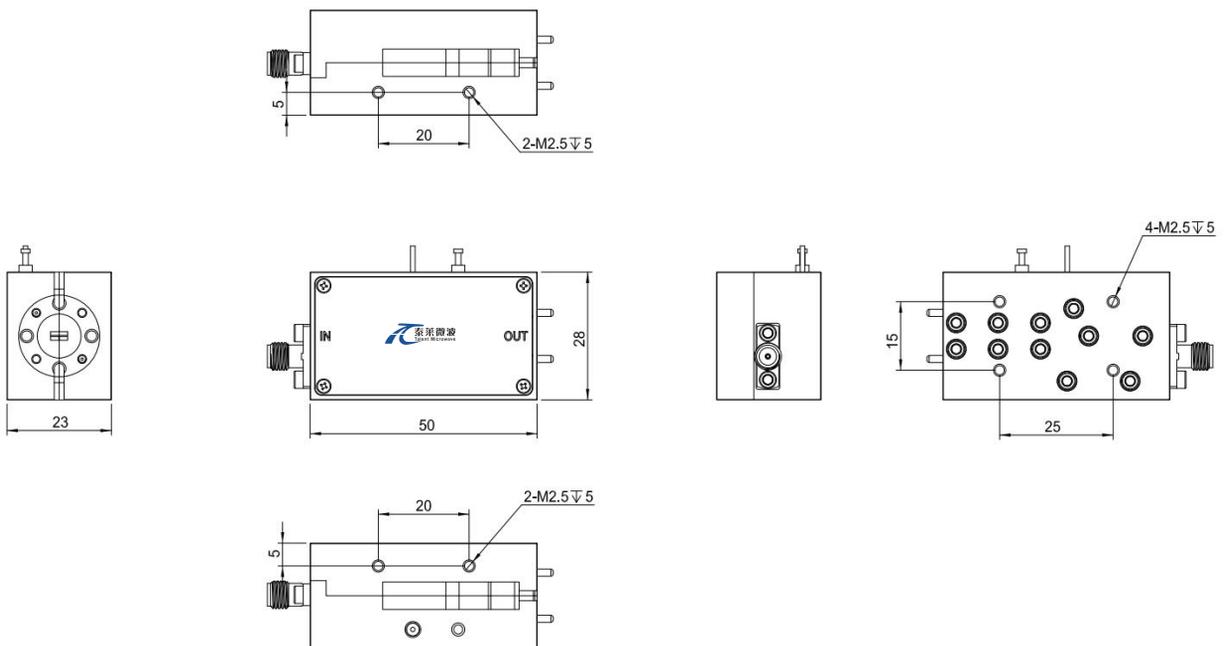
Parameter	Value	Units
Output Connector	WR-15/UG-385/U	
Input Connector	SMA Female	
DC Bias	Solder Pin	
Size	50*28*23	mm

### 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



ESD Protection: Strictly adhere to ESD precautions to prevent electrostatic damage.

### Environmental Conditions:

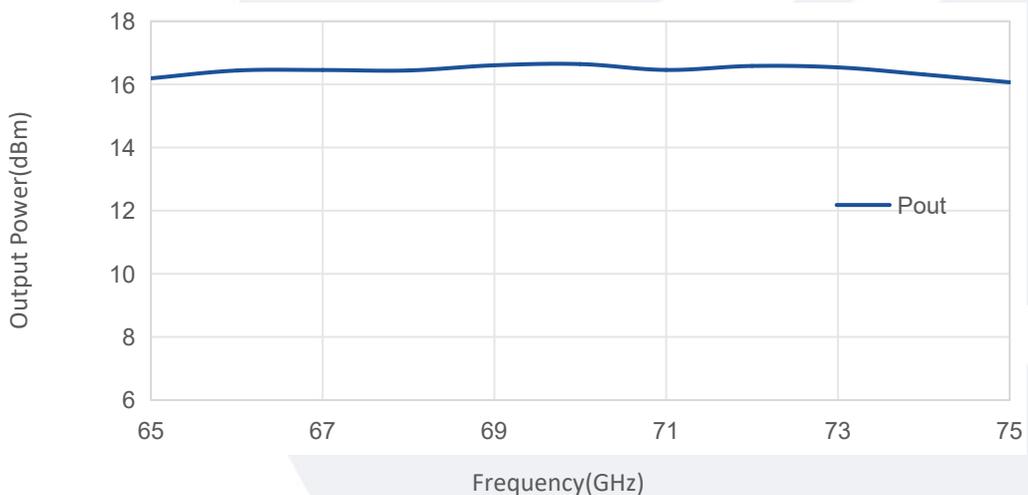
Parameter	Min	Typ	Max	Units
Operating Temperature	-10		+65	°C
Non-operating Temperature	-45		+85	°C
Relative humidity		95		%
Altitude	50,000			feet
Shock / Vibration(MIL-STD-810F)	25g rms (15 degree 2KHz) endurance, 1 hour per axis			
Shock(non operating)	20G for 11msc half sin wave,3 axis both directions			

### Ordering Information:

Base Number	Description	Revision
TMAM-065075-0410-15	Active Multiplier,X4,65-75GHz, Output Power:16dBm,WR-15/UG-385/U,SMA Female	Rev.1.0

### Typical Performance Data:

Output Power 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.