

Model: TLAM-0416-0215-S
**Active Multiplier
 X2, 4-16 GHz, +15 dBm Output Power,**
Feature:

- Output Frequency: 4-16 GHz
- Output Power : 15dBm Typ
- Low power consumption
- 50 Ohm Matched Input / Output

Electrical Specifications:

| Parameter | Min | Typ | Max | Units |
|-------------------|-----|-----|-----|-------|
| Output Frequency | 4 | | 16 | GHz |
| Output Power | | +15 | | dBm |
| Input Frequency | 2 | | 8 | GHz |
| Input Power | +5 | | +10 | dBm |
| Multiply Factor | | 2 | | Time |
| 1st Harmonic | | -30 | | dBc |
| 3rd Harmonic | | -26 | | dBc |
| DC Voltage | +8 | +12 | +15 | V |
| DC Supply Current | | 110 | | mA |

Mechanical Specifications:

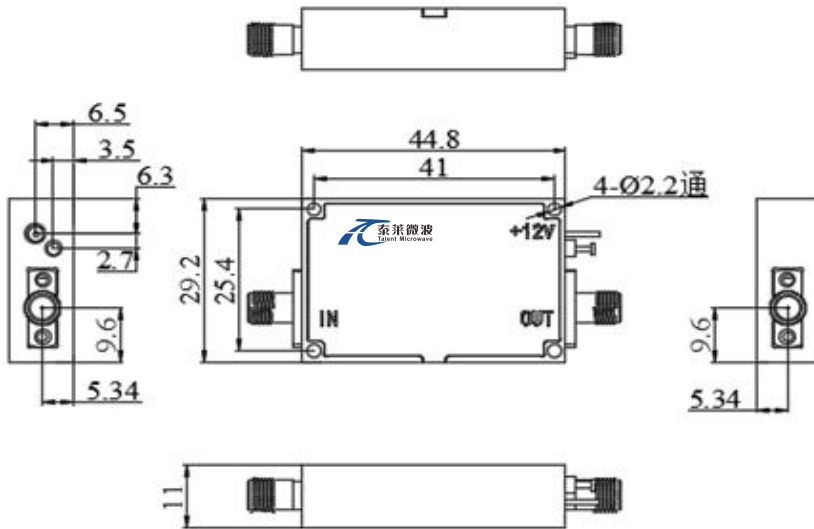
| Parameter | Value | Units |
|------------------|--------------|-------|
| Output Connector | SMA Female | |
| Input Connector | SMA Female | |
| DC Bias | Solder Pin | |
| Size | 44.8×29.2×11 | mm |

Absolute Maximum Ratings:

| Parameter | Value |
|-----------------------|----------------------|
| Supply Bias Voltage | +15 V |
| RF Input Power | +18 dBm |
| ESD sensitivity (HBM) | Class 0, passed 150V |

Outline Drawing:

Unit: mm



OBSERVE PRECAUTIONS
ELECTROSTATIC SENSITIVE
DEVICES

Environmental Conditions:

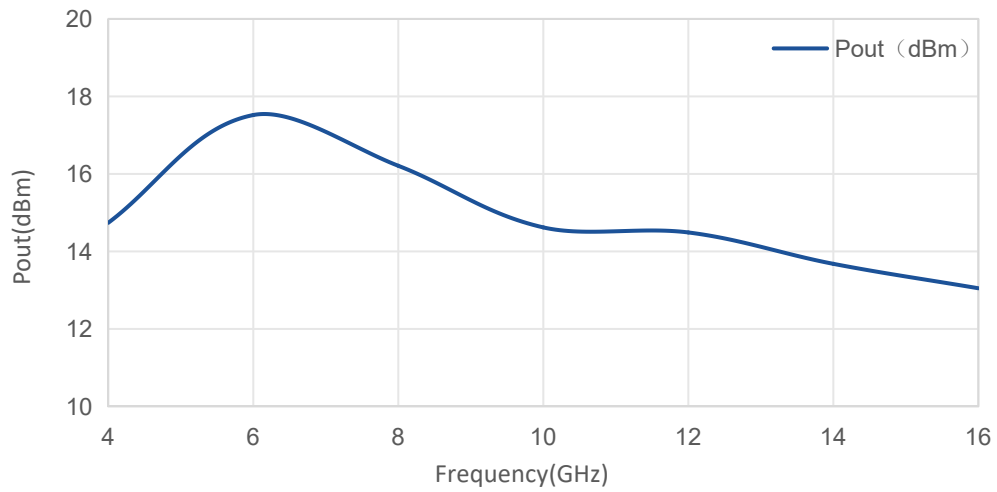
| Parameter | Min | Typ | Max | Units |
|---------------------------------|---|-----|-----|-------|
| Operating Temperature | 0 | | +55 | °C |
| Non-operating Temperature | -25 | | +65 | °C |
| Relative humidity | | 95 | | % |
| Altitude | 50,000 | | | feet |
| Shock / Vibration(MIL-STD-810F) | 25g rms (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 |
|------------------|--|----------|
| TLAM-0416-0215-S | Active Multiplier X2, 4-16 GHz ,+15 dBm Output Power,SMA Female | Rev.1.1 |

Typical Performance Data:

Pout vs Frequency



3rd Harmonic vs Frequency

