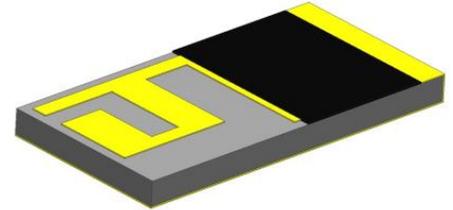


General Description

CVD Diamond Chip Terminations offer a unique combination of extreme high power ratings in very small packages. These terminations may be used in applications up to 30 GHz and are ideal for applications with requirements for high power capability, broad frequency response, small footprint and light weight. The terminations are manufactured using all thin film construction and have a gold finish that it both wire bondable and solderable. This total thin film construction also makes them ideal for peak power applications. High reliability tested versions based on MIL-PRF-55342 are also available. Select from tape and reel, bulk, or waffle packaging. These products are also lead free, RoHS compliant and S-level approved.



Features

- Small Size - Light Weight
- Highest Thermal Performance Possible
- Excellent Peak Power Capability
- Rugged Passivated TaN Film
- Moisture Resistant
- Pure Gold Input Pads
- Wire Bondable or Solderable
- High Power

Applications

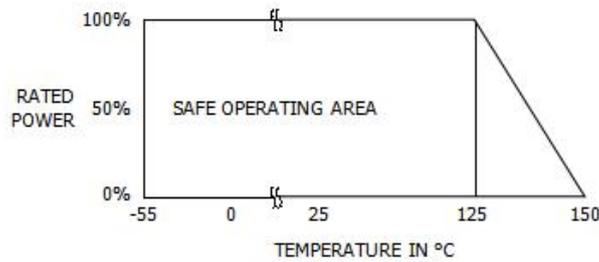
- Broadcast
- Higher Power Filters
- High Power Amplifiers
- Instrumentation
- Isolators
- Military
- Satellite Communications
- Phased Array Radar

Specifications

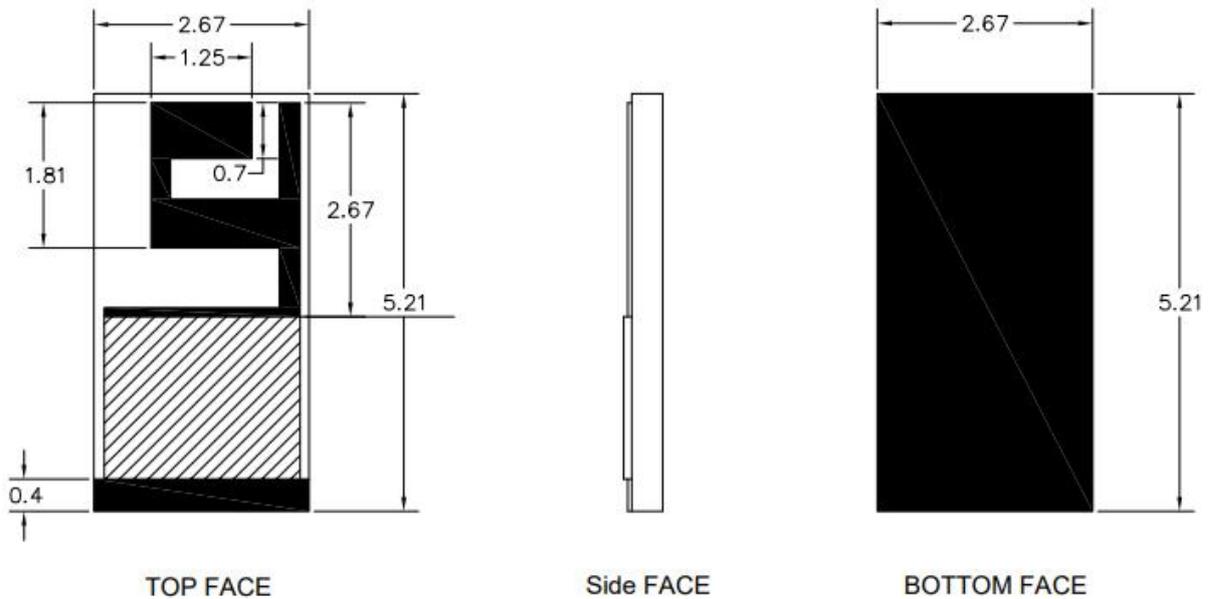
Nominal Impedance:	50 Ω \pm 5%
Frequency Range:	DC – 12.0 GHz
Input Power CW:	300 Watts
Peak Power:	6000 Watts (1 μ s pulse width/1% duty cycle)
VSWR:	DC-6.0 GHz 1.30:1 Max 6.0-12.0GHz 1.40:1 Max
Operating Temperature:	-55 $^{\circ}$ C To +150 $^{\circ}$ C
Storage Temperature:	-55 $^{\circ}$ C To +150 $^{\circ}$ C
Temperature Coefficient:	\pm 200 PPM/ $^{\circ}$ C Max

Mechanical

Substrate Material:	CVD Diamond
Terminal Material:	Gold over Nickel
Ground Plane Material:	Gold over Platinum
Resistive Element:	Thin Film



Mechanical Outline



Units = mm