

## TERMINATION CVD DIAMOND 125 WATTS

DATASHEET PART SERIES: CT1310DT

Sheet 1 of 2  
Doc# CT1310DT-1015435ECO-082846  
Revision A

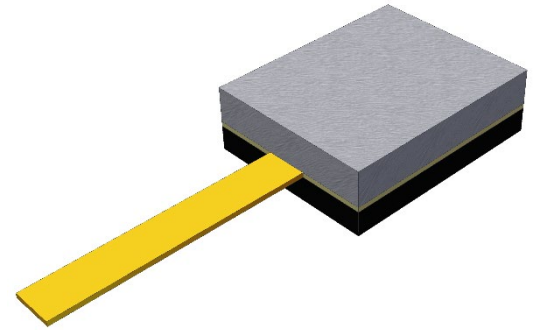
## ORDERING INFORMATION

Part Identifier: CT1310DT

## SPECIFICATIONS

## 1.0 ELECTRICAL

Nominal Impedance:	50 $\Omega$ $\pm$ 5%
Frequency Range:	DC – 14 GHz
Input Power:	125 Watts
Peak Power:	1250 Watts (1 $\mu$ s pulse width/1% duty cycle)
VSWR:	1.5:1 Max



## 2.0 ENVIRONMENTAL

Operating Temperature:	-55°C To +125°C
Non-operating Temperature:	-55 °C To +150 °C
Temperature Coefficient:	$\pm$ 200 PPM/°C Max

## 3.0 MARKING

Unit Marking:	None
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## 4.0 QUALITY ASSURANCE

Sample Inspect Per MIL-STD-105, Level II, 1.0% AQL.  
Visual and Mechanical Inspection for Conformance to Outline Drawing  
Measure DC Resistance  
Data Retention - Standard

## 5.0 PACKAGING

Standard:	Waffle Packaging
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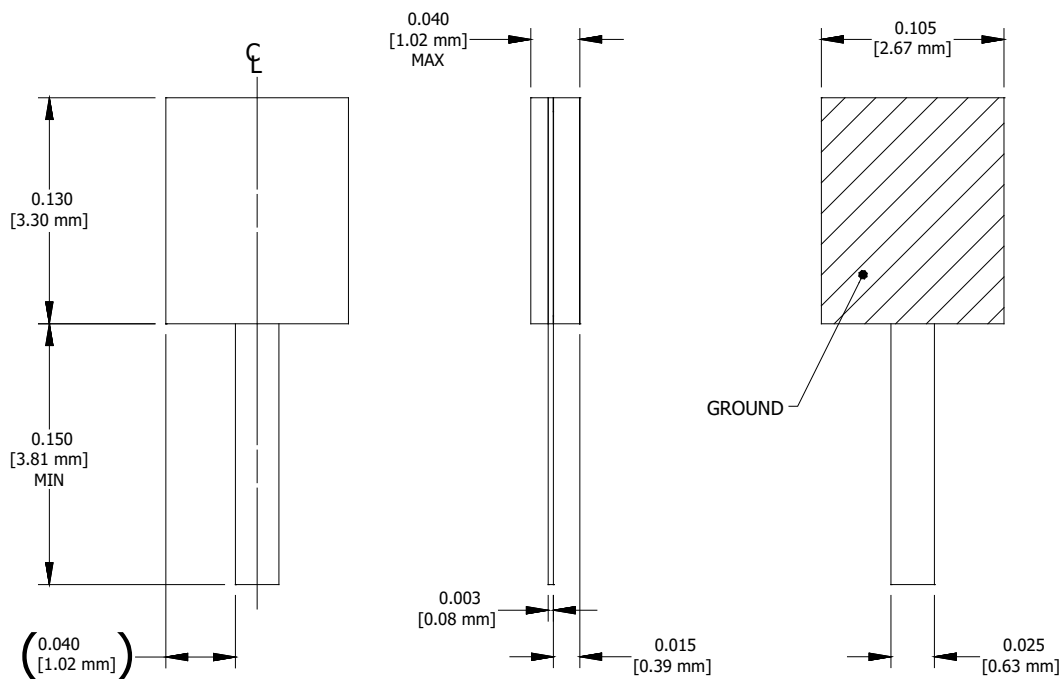
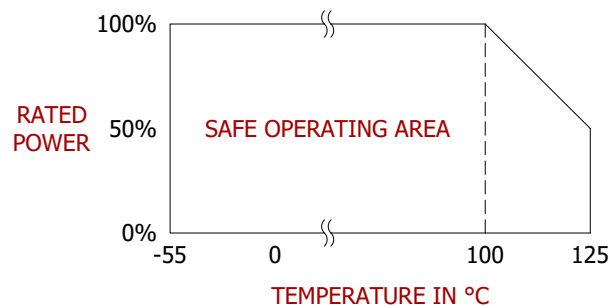
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## 6.0 MECHANICAL

Substrate Material:	CVD Diamond
Resistive Element:	Passivated TaN
Ground Plane Metallization:	Gold over Platinum
Terminal Metallization:	Gold over Nickel
Tabs:	Beryllium Copper; Gold Plated
Metric Dimensions:	Provided for reference only

Unless Otherwise Specified: TOLERANCE: X.XX =  $\pm 0.01$  X.XXX =  $\pm 0.005$