

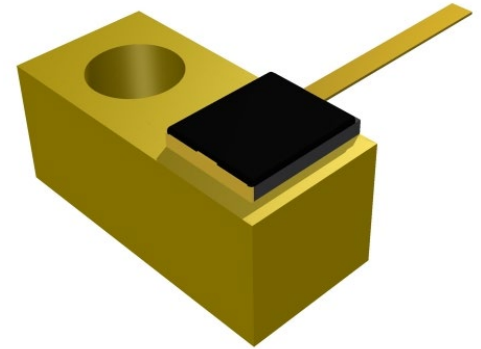
## TERMINATION, FLANGE MOUNT CVD DIAMOND 100 WATTS

DATASHEET PART SERIES: CT1310DHRT

Sheet 1 of 2  
Doc# CT1310DHRT-1013195ECO-082846  
Revision A

## ORDERING INFORMATION

Part Identifier: CT1310DHRT



## SPECIFICATIONS

## 1.0 ELECTRICAL

Nominal Impedance:	50 $\Omega$
Frequency Range:	DC – 14 GHz
Input Power CW:	100 Watts
Peak Power:	1000 Watts (1 $\mu$ s pulse width/1% duty cycle)
VSWR:	DC – 10 GHz 1.3:1 Max
VSWR:	10 – 14 GHz 1.6:1 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:	Jewel Case
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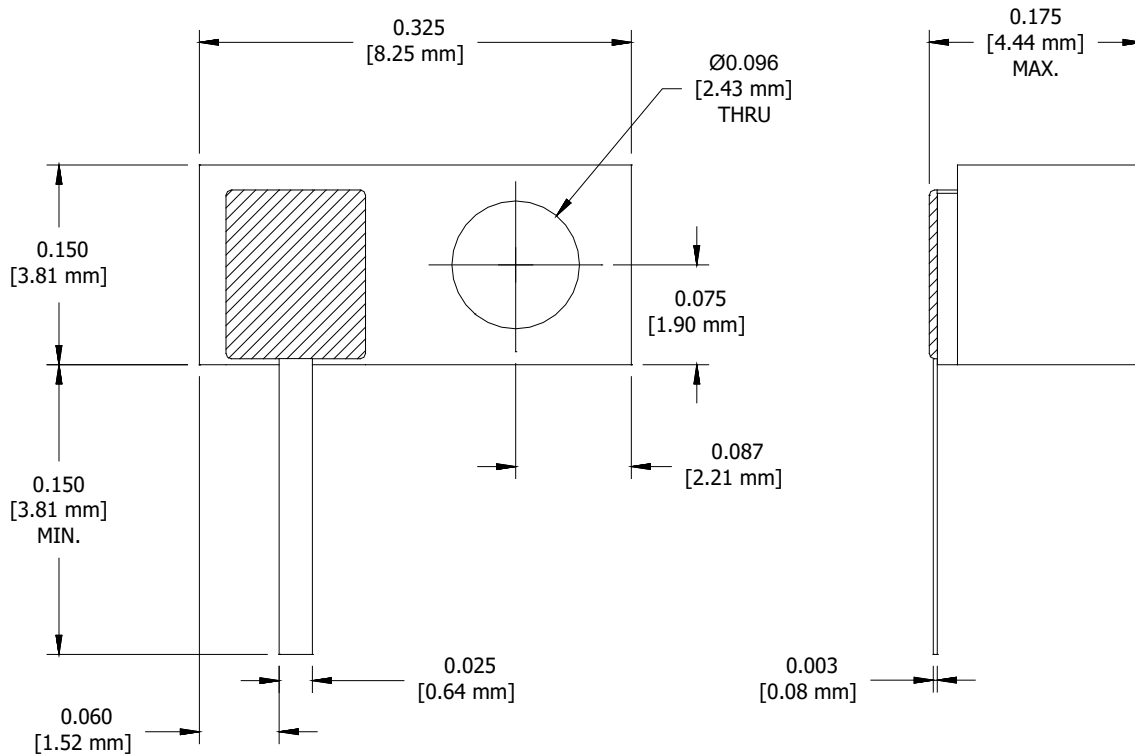
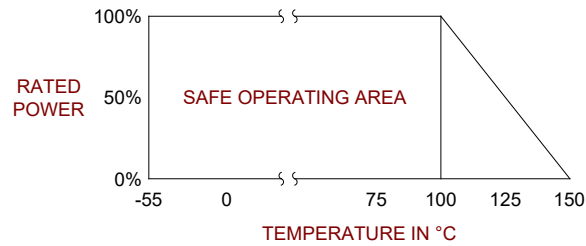
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## 6.0 MECHANICAL

Substrate Material:	CVD Diamond
Resistive Element:	Passivated TaN
Tab:	Beryllium Copper, Gold over Nickel plating
Flange:	Copper, Gold over Nickel
Metric Dimensions:	Provided for reference only

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