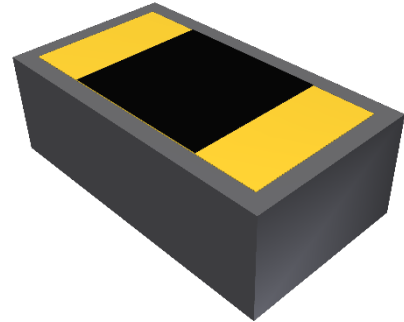


**RESISTOR CVD DIAMOND CHIP 1.5 WATTS, WRAPPED****DATASHEET PART SERIES: CR0402D****Sheet 1 of 2**  
**Doc# CR0402DX5W2-1013115****ECO-082845**  
**Revision A****ORDERING INFORMATION****Part Identifier:****CR0402DX5W2**

Resistance

**SPECIFICATIONS****1.0 ELECTRICAL**

Resistance:	50 & 100 $\Omega$ , $\pm 5\%$
Frequency Range:	DC – 18 GHz
Capacitance:	0.1 pF Typical
Input Power CW:	1.5 Watts
Peak Power:	15 Watts (1 $\mu$ s pulse width/1% duty cycle)

**2.0 ENVIRONMENTAL**

Operating Temperature:	-55 °C To +125 °C
Storage 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<sub>2</sub>  
 Visual and Mechanical Inspection for Conformance to Outline Drawing  
 Measure DC Resistance  
 Data Retention - Standard

**5.0 PACKAGING**

Standard:	Waffle Packaging
Optional:	Tape and Reel

**6.0 MECHANICAL**

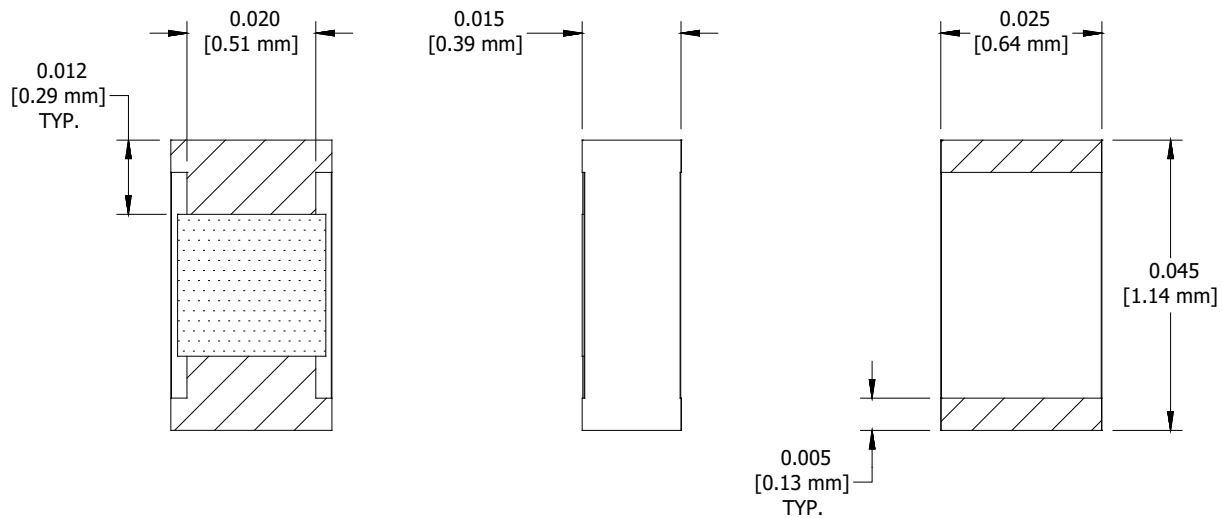
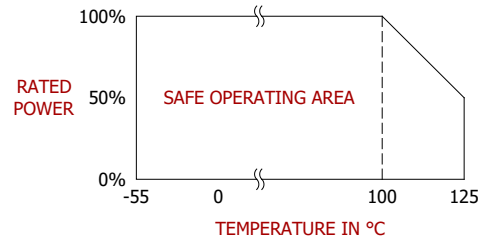
Substrate Material:	CVD Diamond
Resistive Element:	Thin Film
Terminal Material:	Gold over Nickel
Ground Plane Material:	Gold over Platinum
Metric Dimensions:	Provided for reference only

# RESISTOR CVD DIAMOND CHIP 1.5 WATTS, WRAPPED

DATASHEET PART SERIES: CR0402D

Sheet 2 of 2  
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ECO-082845  
Revision A



Unless Otherwise Specified:

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