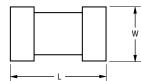
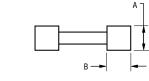
# ChipGuard® MLE Series Varistor ESD Clamp Protectors

## BOURNS

#### Product Dimensions



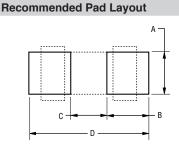
Dimension





CG0603MLE

Series



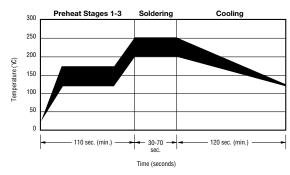
Dim.	CG0402MLE Series	CG0603MLE Series
А	<u>0.51</u> (0.020)	<u>0.76</u> (0.030)
В	<u>0.61</u> (0.024)	<u>1.02</u> (0.040)
С	<u>0.51</u> (0.020)	<u>0.50</u> (0.020)
D	<u>1.70</u> (0.067)	<u>2.54</u> (0.100)

L	$\frac{1.00 \pm 0.15}{(0.04 \pm 0.006)}$	$\frac{1.60 \pm 0.20}{(0.064 \pm 0.008)}$
W	$\frac{0.50 \pm 0.10}{(0.02 \pm 0.004)}$	$\frac{0.80 \pm 0.20}{(0.032 \pm 0.008)}$
А	$\frac{0.50 \pm 0.10}{(0.02 \pm 0.004)}$	$\frac{0.80 \pm 0.20}{(0.032 \pm 0.008)}$
В	$\frac{0.25 \pm 0.15}{(0.10 \pm 0.006)}$	$\frac{0.30 \pm 0.20}{(0.012 \pm 0.008)}$

CG0402MLE

Series

#### **Solder Reflow Recommendations**



A	Stage 1 Preheat	Ambient to Preheating Temperature	30 s to 60 s
В	Stage 2 Preheat	140 °C to 160 °C	60 s to 120 s
С	Stage 3 Preheat	Preheat to 200 °C	20 s to 40 s
D	Main Heating	200 °C 210 °C 220 °C 230 °C 240 °C	60 s to 70 s 55 s to 65 s 50 s to 60 s 40 s to 50 s 30 s to 40 s
Е	Cooling	200 °C to 100 °C	1 °C/s to 4 °C/s

• This product can be damaged by rapid heating, cooling or localized heating.

· Heat shocks should be avoided. Preheating and gradual cooling recommended.

• Excessive solder can damage the device. Print solder thickness of 150 to 200 um recommended.

 Solder gun tip temperature should be kept below 280 °C and should not touch the device directly. Contact should be less than 3 seconds. A solder gun under 30 watts is recommended.

How to Order		
	CG 0n	0n MLE - 18 x
ChipGuard <sup>®</sup> Product Designat Package Option	or	
0402 = 0402 Package	0603 = 0603 Package	
Multilayer Series Designator		
Operating Voltage		
Tape & Reel Packaging — E = 4,000 pcs. per reel (06	03 package) G = 10,000 pcs. per reel (0402 package)	

Ni barrier terminations are standard on all ChipGuard® part numbers.

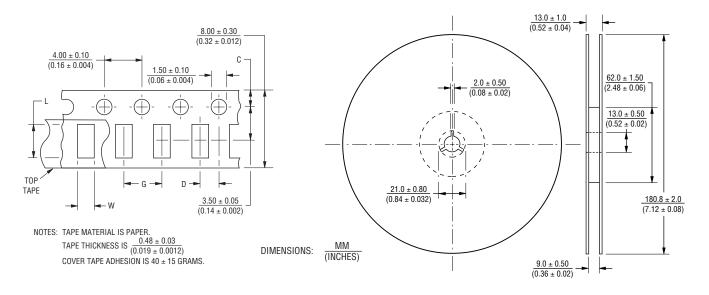
Specifications are subject to change without notice. Users should verify actual device performance in their specific applications. The products described herein and this document are

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# ChipGuard® MLE Series Varistor ESD Clamp Protectors

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#### **Packaging Dimensions**



Dimension	CG0402MLE Series	CG0603MLE Series
С	$\frac{1.75 \pm 0.05}{(0.04 \pm 0.002)}$	$\frac{1.75 \pm 0.10}{(0.04 \pm 0.004)}$
D	$\frac{2.00 \pm 0.02}{(0.08 \pm 0.0008)}$	$\frac{2.00 \pm 0.05}{(0.08 \pm 0.002)}$
L	$\frac{1.19 \pm 0.05}{(0.047 \pm 0.002)}$	$\frac{1.80 \pm 0.20}{(0.072 \pm 0.008)}$
W	$\frac{0.69 \pm 0.05}{(0.027 \pm 0.002)}$	$\frac{0.90 \pm 0.20}{(0.036 \pm 0.008)}$
G	$\frac{2.0 \pm 0.05}{(0.08 \pm 0.002)}$	$\frac{4.0 \pm 0.05}{(0.16 \pm 0.002)}$

## BOURNS®

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