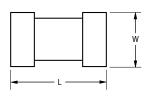
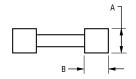
ChipGuard® MLU Series - ESD Protectors

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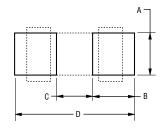
Recommended Pad Layout

Product Dimensions





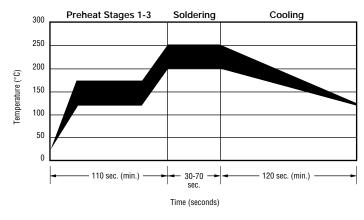
DIMENSIONS: $\frac{MM}{(INCHES)}$



Dimension	CG0402 Series	CG0603 Series
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	$\frac{0.36 \pm 0.05}{(0.014 \pm 0.002)}$	$\frac{0.45 \pm 0.10}{(0.018 \pm 0.004)}$
В	$\frac{0.25 \pm 0.15}{(0.10 \pm 0.006)}$	$\frac{0.30 \pm 0.20}{(0.012 \pm 0.008)}$

Dim.	CG0402 Series	CG0603 Series
А	<u>0.51</u> (0.020)	<u>0.76</u> (0.030)
В	0.61 (0.024)	1.02 (0.040)
С	0.51 (0.020)	0.50 (0.020)
D	1.70 (0.067)	<u>2.54</u> (0.100)

Solder Reflow Recommendations

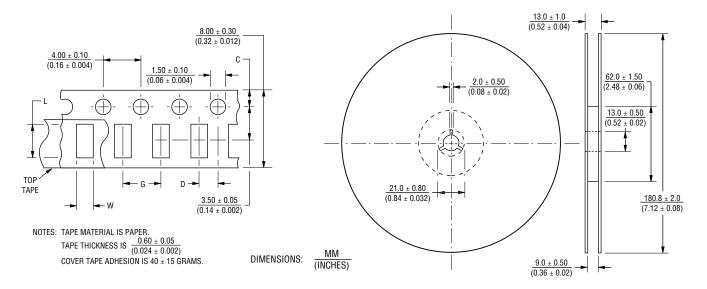


Α	Stage 1 Preheat	Ambient to Preheating Temperature	30 s to 60 s
В	Stage 2 Preheat	140 °C to 160 °C	60 s to 120 s
С	Stage 3 Preheat	Preheat to 200 °C	20 s to 40 s
D	Main Heating	200 °C 210 °C 220 °C 230 °C 240 °C	60 s to 70 s 55 s to 65 s 50 s to 60 s 40 s to 50 s 30 s to 40 s
Е	Cooling	200 °C to 100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

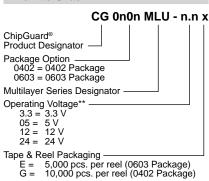
ChipGuard ® MLU Series - ESD Protectors

Packaging Dimensions



Dimension	CG0402 Series	CG0603 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	$\frac{1.12 \pm 0.03}{(0.045 \pm 0.0012)}$	$\frac{1.80 \pm 0.20}{(0.072 \pm 0.008)}$
W	$\frac{0.62 \pm 0.03}{(0.025 \pm 0.0012)}$	$\frac{0.90 \pm 0.20}{(0.036 \pm 0.008)}$
G	$\frac{2.0 \pm 0.05}{(0.08 \pm 0.002)}$	$\frac{4.0 \pm 0.05}{(0.16 \pm 0.002)}$

How to Order



REV. K 08/19

Specifications are subject to change without notice.

Users should verify actual device performance in their specific applications.

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^{**} Only models lower than 10 volts require decimal point.

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