



# LAMBDA ( $\lambda$ ) BRIDGE THERMAL CONDUCTOR LB SERIES



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[http://datasheets.avx.com/AVX-Lambda-Bridge-\(LB-Series\).pdf](http://datasheets.avx.com/AVX-Lambda-Bridge-(LB-Series).pdf)

## TOP SELLING POINTS

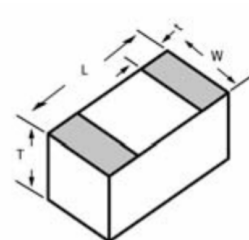
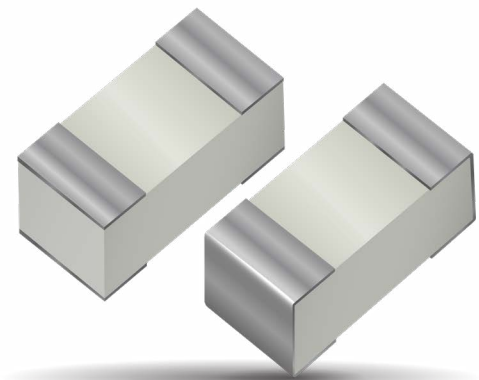
- High Thermal Conductivity
- Low Thermal Resistance
- Low Capacitance
- Increases Circuit Reliability
- RoHS Compliant
- More Efficient Thermal Management

## BASIC OVERVIEW

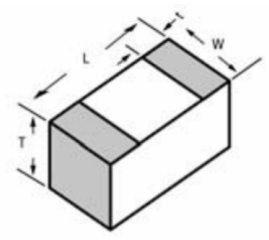
This product is manufactured with the highest quality materials for reliable and repeatable performance providing a cost effective thermal management solution. These devices are constructed with Aluminum Nitride (AlN) or Beryllium Oxide (BeO) and are available in standard EIA form factors.  $\lambda$ -Bridge provides the designer with the ability to manage thermal conditions by directing heat to a thermal ground plane, heat sink or any other specific thermal point of interest.

## DIMENSIONS

SIZE (EIA)	LENGTH (L)	WIDTH (W)	STANDARD THICKNESS (T, MILS)		TERMINATION (T)
			T1	T2	
0302	0.77 ± 0.051 (0.030 ± 0.002)	0.51 ± 0.051 (0.020 ± 0.002)	20	15	0.25 ± 0.051 (0.010 ± 0.002)
0402	1.02 ± 0.051 (0.040 ± 0.002)	0.51 ± 0.051 (0.020 ± 0.002)	20	15	0.25 ± 0.051 (0.010 ± 0.002)
0603	0.52 ± 0.051 (0.060 ± 0.002)	0.76 ± 0.051 (0.030 ± 0.002)	25	20	0.38 ± 0.051 (0.015 ± 0.002)
0805	2.03 ± 0.051 (0.080 ± 0.002)	1.27 ± 0.051 (0.050 ± 0.002)	40	25	0.51 ± 0.051 (0.020 ± 0.002)



Non-Wrapped



Wrapped



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## HOW TO ORDER:



<b>LB</b> <b>T</b>	<b>03</b> <b>T</b>	<b>A</b> <b>T</b>	<b>25</b> <b>T</b>	<b>W</b> <b>T</b>	<b>H</b> <b>T</b>	<b>T</b> <b>T</b>
<b><math>\lambda</math>-Bridge</b>	<b>Case Size</b>	<b>Substrate</b>	<b>Thickness (mils)</b>	<b>Style</b>	<b>Termination</b>	<b>Packaging</b>
	OS = 0302 02 = 0402 03 = 0603 05 = 0805	A = AlN B = BeO		W = Edge wrap E = No Wrap	Y = Silver Platinum, non-magnetic Termination S = Silver over Magnetic Termination	T = 1000pcs., 7" reel T/500 = 500pcs., 7" reel C = Matrix Tray
Consult factory for other termination options e.g., tin plate and solder plate						

## APPLICATIONS

- GaN Power Amplifiers
- High RF Power Amplifiers
- Filters
- Synthesizers
- Industrial Computers
- Switch Mode Power Supplies
- Pin & Laser Diodes

## FUNCTIONAL APPLICATIONS

- Between active device and adjacent ground planes
- Specific contact pad to case
- Contact pad to contact pad
- Direct component contact to via pad or trace
- Edges fully metalized

## BENEFITS

$\lambda$ -Bridge provides the benefit of increased overall circuit reliability. AVX's  $\lambda$ -Bridge is manufactured using one-piece construction, providing a RoHS compliant SMT package that is fully compatible with high speed automated pick-and-place processing.

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