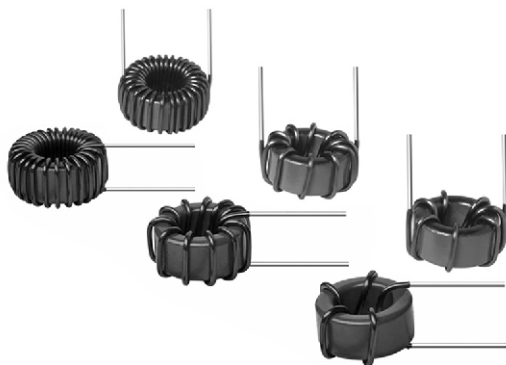


# Toroid, High Current, High Temperature, Radial Leaded



## FEATURES

- Printed circuit mounting
- Toroid design reduces EMI
- Vertical or horizontal mounting to optimize PCB layout
- High temperature rating of 200 °C - no aging
- Material categorization: For definitions please see [www.vishay.com/doc?99912](http://www.vishay.com/doc?99912)


**RoHS**  
COMPLIANT

## APPLICATIONS

- Switching power supplies
- EMI/RFI filtering
- Output chokes

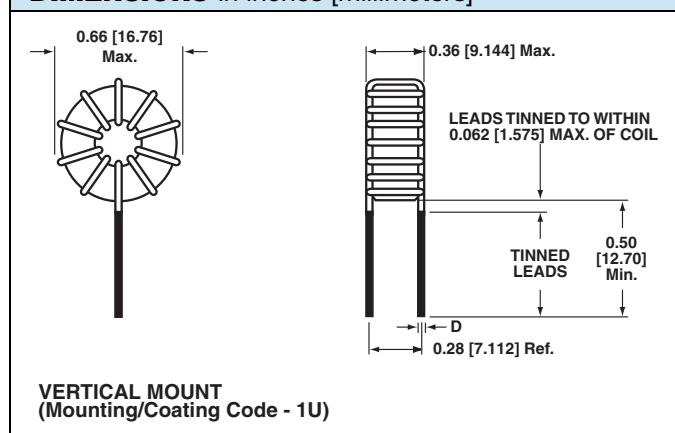
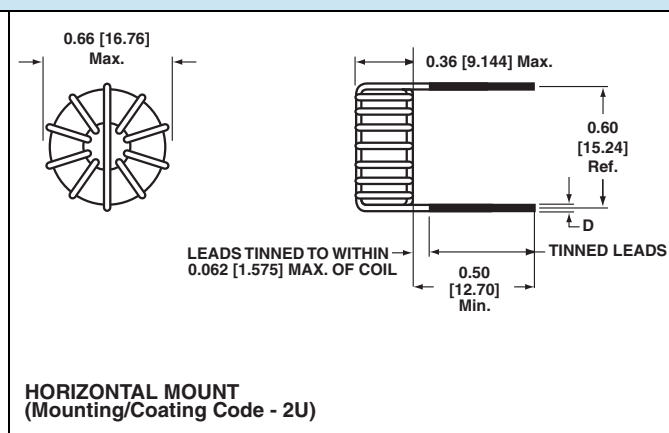
## STANDARD ELECTRICAL SPECIFICATIONS in inches [millimeters]

IND. L <sub>0</sub> (μH)	TOLERANCE (%)	DCR (VERTICAL MOUNT)		DCR (HORIZONTAL MOUNT)		RATED CURRENT VERTICAL MOUNT (A) <sup>(1)</sup>	RATED CURRENT HORIZONTAL MOUNT (A) <sup>(1)</sup>	SATURATION CURRENT (A) <sup>(2)</sup>	LEAD DIAMETER D
		TYP. (Ω)	MAX. (Ω)	TYP. (Ω)	MAX. (Ω)				
0.39	20	0.0014	0.0016	0.0018	0.002	32.0	28.0	23	0.053 [1.346]
1.2	20	0.002	0.0023	0.0025	0.0028	25.5	22.5	12.5	0.053 [1.346]
1.5	20	0.0023	0.0026	0.0028	0.003	23.25	21.0	10.5	0.053 [1.346]
4.7	20	0.0064	0.0072	0.0072	0.008	11.9	11.25	5.9	0.042 [1.067]
10	20	0.0132	0.0145	0.015	0.0164	7.25	7.0	4.2	0.034 [0.864]
15	20	0.021	0.023	0.022	0.024	5.6	5.5	3.4	0.031 [0.787]
22	20	0.024	0.027	0.026	0.029	5.2	5.0	2.5	0.031 [0.787]
39	20	0.048	0.050	0.050	0.055	3.3	3.3	1.9	0.025 [0.635]
68	20	0.080	0.086	0.082	0.090	2.5	2.5	1.4	0.022 [0.559]
100	20	0.099	0.108	0.106	0.118	2.25	2.25	1.15	0.022 [0.559]

## Notes

- Operating temperature (ambient + ΔT): - 55 °C to + 200 °C, inductance tested at 0.25 V<sub>RMS</sub>, 1 kHz, DCR tested at 25 °C ± 5 °C, all material rated at 200 °C
- (1) DC current that will cause an approx. ΔT of 40 °C
- (2) DC current that will cause L<sub>0</sub> to drop approx. 20 %

## DIMENSIONS in inches [millimeters]

 <p><b>VERTICAL MOUNT</b> (Mounting/Coating Code - 1U)</p>	 <p><b>HORIZONTAL MOUNT</b> (Mounting/Coating Code - 2U)</p>
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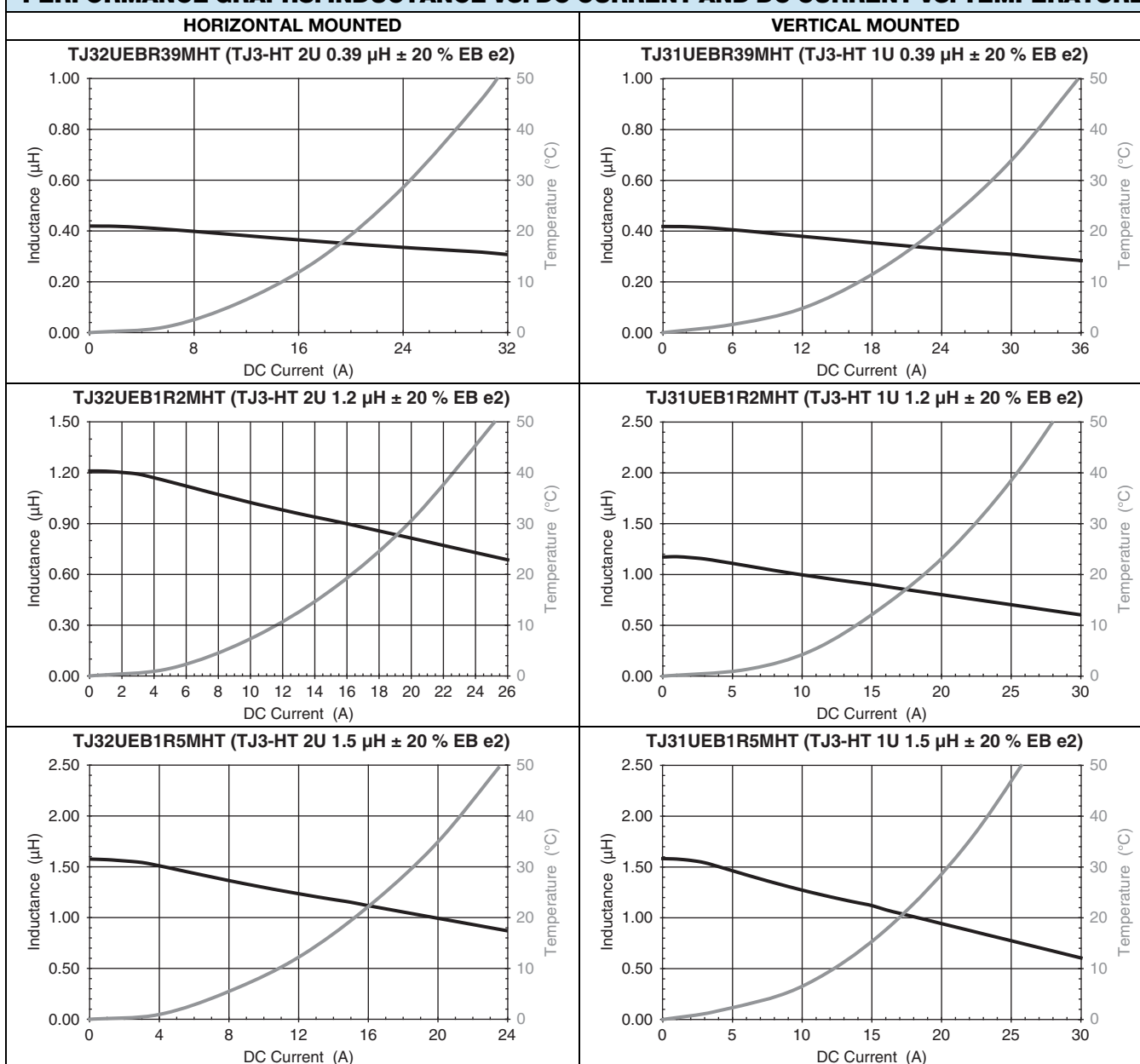
## ORDERING INFORMATION

TJ3-HT	1U	10 $\mu$ H	$\pm 20\%$	EB	e2
MODEL	MOUNTING/COATING CODE	INDUCTANCE VALUE	INDUCTANCE TOLERANCE	PACKAGE CODE	JEDEC LEAD (Pb)-FREE STANDARD

## GLOBAL PART NUMBER

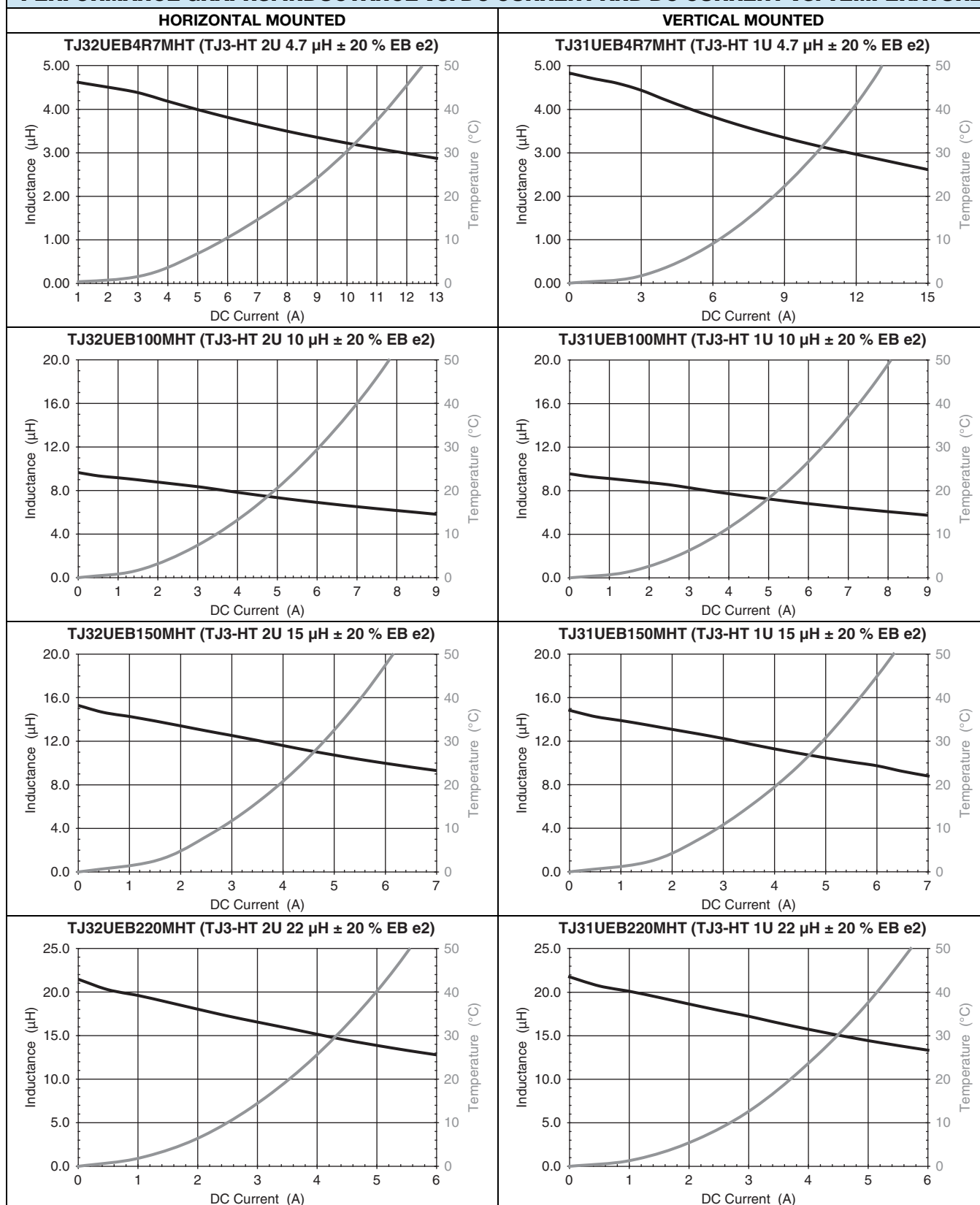
<b>T</b>	<b>J</b>	<b>3</b>	<b>1</b>	<b>U</b>	<b>E</b>	<b>B</b>	<b>1</b>	<b>0</b>	<b>0</b>	<b>M</b>	<b>H</b>	<b>T</b>
MODEL			MOUNTING/COATING CODE		PACKAGE CODE		INDUCTANCE VALUE			INDUCTANCE TOLERANCE		SERIES

## PERFORMANCE GRAPHS: INDUCTANCE VS. DC CURRENT AND DC CURRENT VS. TEMPERATURE



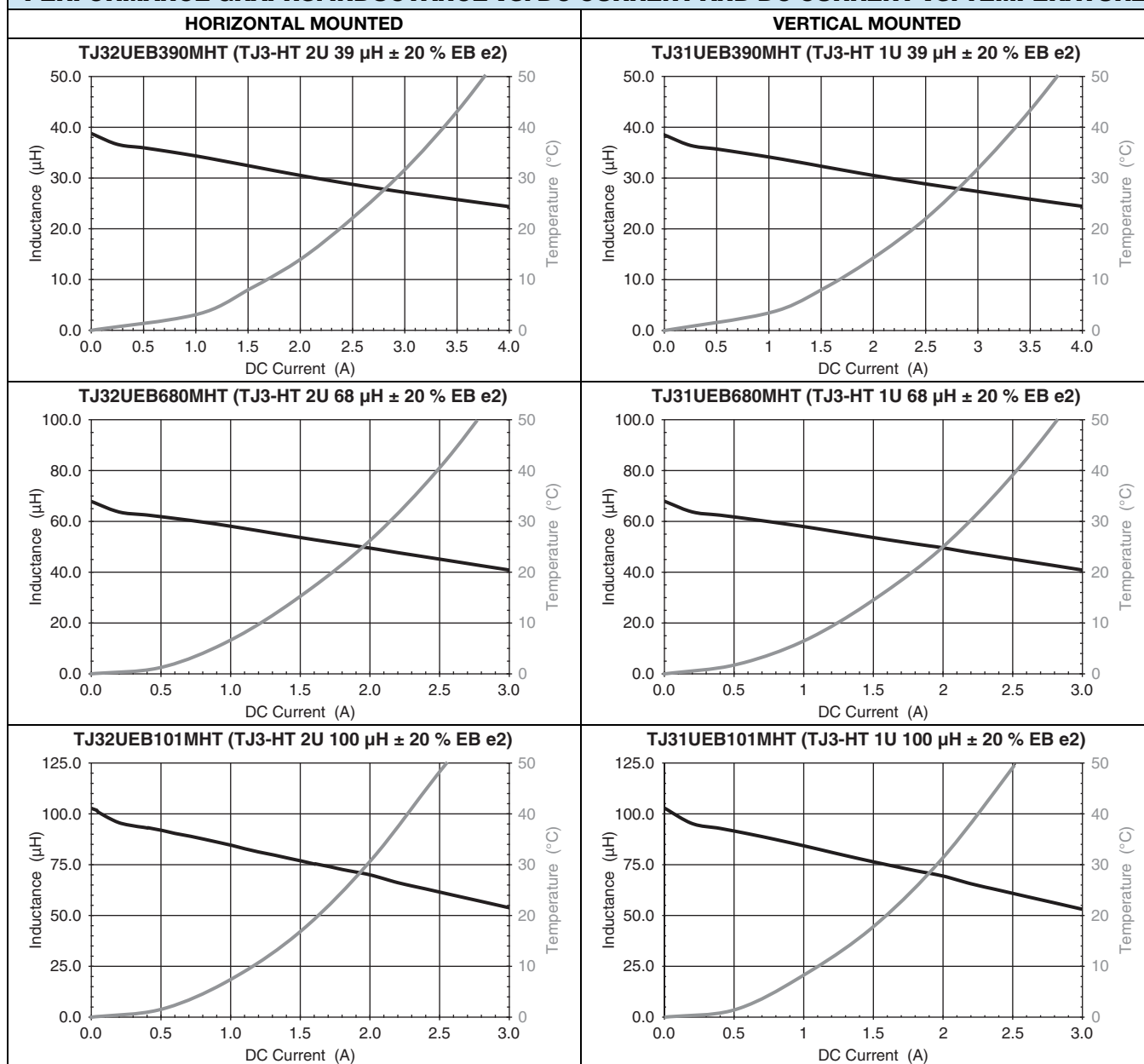


PERFORMANCE GRAPHS: INDUCTANCE VS. DC CURRENT AND DC CURRENT VS. TEMPERATURE





**PERFORMANCE GRAPHS: INDUCTANCE VS. DC CURRENT AND DC CURRENT VS. TEMPERATURE**





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