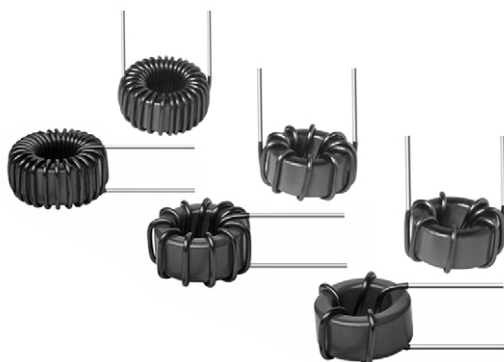


Vertical and Horizontal Mount, Through-Hole Toroid Inductors, High Temperature 200 °C, Radial Leaded



FEATURES

- Toroid diameter: 16.76 mm max.
- Toroid design reduces EMI
- Vertical or horizontal mounting to optimize PCB layout
- High temperature rating of 200 °C - no aging
- Material categorization: for definitions of compliance please see www.vishay.com/doc?99912


RoHS
COMPLIANT

APPLICATIONS

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

STANDARD ELECTRICAL SPECIFICATIONS in inches [millimeters]

PART NUMBER	IND. L_0 (μ H)	TOLERANCE (%)	DCR (VERTICAL MOUNT)		DCR (HORIZONTAL MOUNT)		RATED CURRENT VERTICAL MOUNT (A) ⁽¹⁾	RATED CURRENT HORIZONTAL MOUNT (A) ⁽¹⁾	SATURATION CURRENT (A) ⁽²⁾	LEAD DIAMETER D
			TYP. (Ω)	MAX. (Ω)	TYP. (Ω)	MAX. (Ω)				
TJ3_ _EBR39MHT	0.39	20	0.0014	0.0016	0.0018	0.002	32.0	28.0	23	0.053 [1.346]
TJ3_ _EB1R2MHT	1.2	20	0.002	0.0023	0.0025	0.0028	25.5	22.5	12.5	0.053 [1.346]
TJ3_ _EB1R5MHT	1.5	20	0.0023	0.0026	0.0028	0.003	23.25	21.0	10.5	0.053 [1.346]
TJ3_ _EB4R7MHT	4.7	20	0.0064	0.0072	0.0072	0.008	11.9	11.25	5.9	0.042 [1.067]
TJ3_ _EB100MHT	10	20	0.0132	0.0145	0.015	0.0164	7.25	7.0	4.2	0.034 [0.864]
TJ3_ _EB150MHT	15	20	0.021	0.023	0.022	0.024	5.6	5.5	3.4	0.031 [0.787]
TJ3_ _EB220MHT	22	20	0.024	0.027	0.026	0.029	5.2	5.0	2.5	0.031 [0.787]
TJ3_ _EB390MHT	39	20	0.048	0.050	0.050	0.055	3.3	3.3	1.9	0.025 [0.635]
TJ3_ _EB680MHT	68	20	0.080	0.086	0.082	0.090	2.5	2.5	1.4	0.022 [0.559]
TJ3_ _EB101MHT	100	20	0.099	0.108	0.106	0.118	2.25	2.25	1.15	0.022 [0.559]

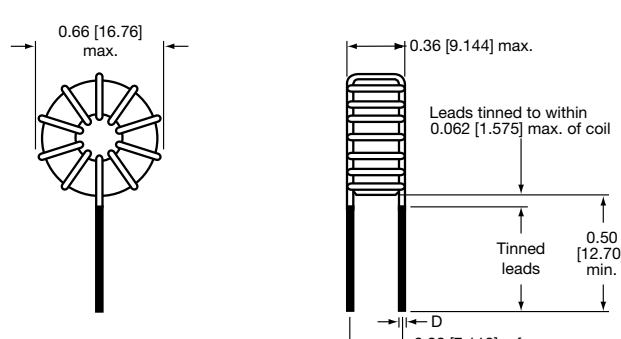
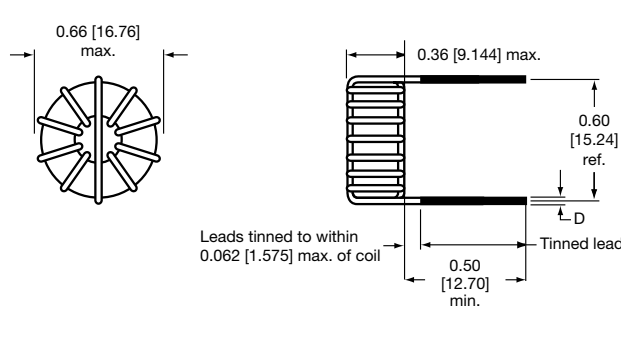
Notes

- Operating temperature (ambient + ΔT): - 55 °C to + 200 °C, inductance tested at 0.25 V_{RMS} , 1 kHz, DCR tested at 25 °C $\pm$ 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_0 to drop approx. 20 %

DIMENSIONS in inches [millimeters]

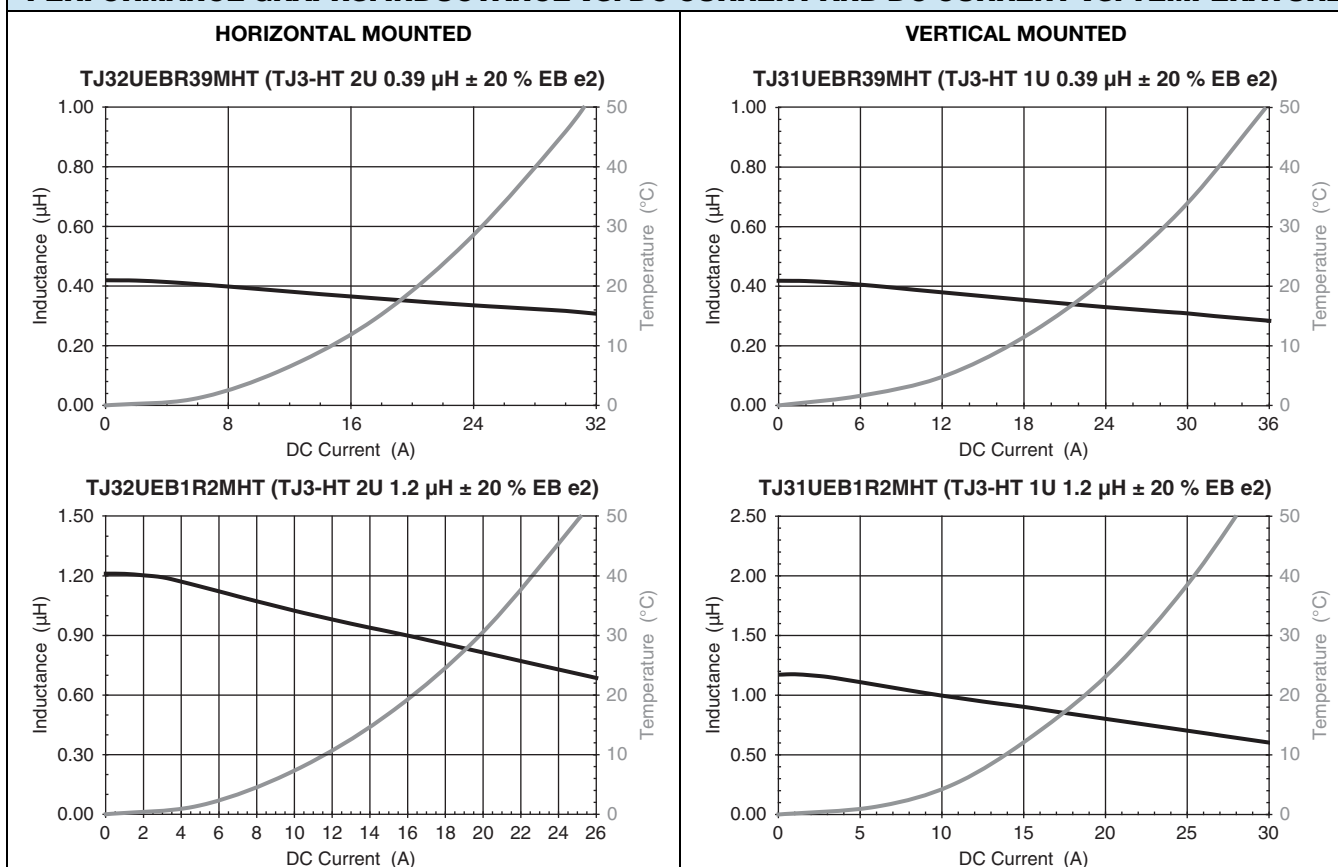
VERTICAL MOUNT (MOUNTING CODE - 1U)	HORIZONTAL MOUNT (MOUNTING CODE - 2U)
	

**ORDERING INFORMATION**

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

GLOBAL PART NUMBER

T J 3	1 U	E B	1 0 0	M	H T
MODEL	MOUNTING CODE	PACKAGE CODE	INDUCTANCE VALUE	INDUCTANCE TOLERANCE	SERIES
	1U = vertical mount 2U = horizontal mount		100 = 10 μ H	M = $\pm 20\%$	

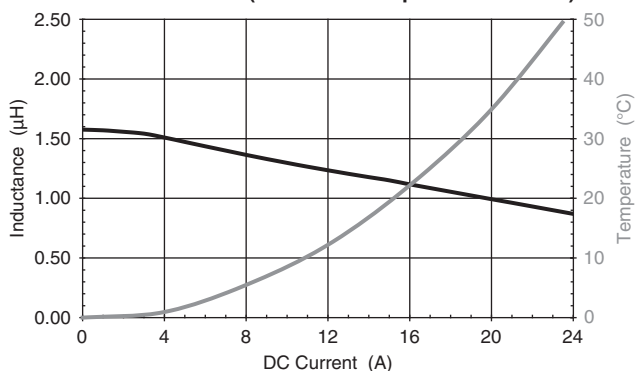
PERFORMANCE GRAPHS: INDUCTANCE VS. DC CURRENT AND DC CURRENT VS. TEMPERATURE



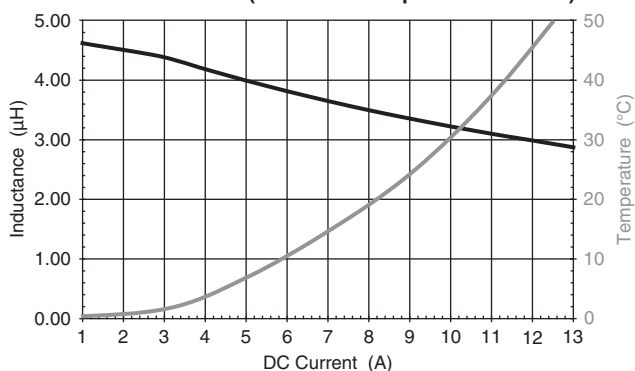
PERFORMANCE GRAPHS: INDUCTANCE VS. DC CURRENT AND DC CURRENT VS. TEMPERATURE

HORIZONTAL MOUNTED

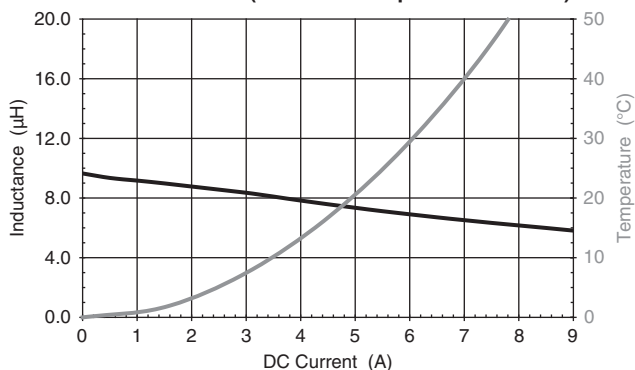
TJ32UEB1R5MHT (TJ3-HT 2U 1.5 μ H $\pm$ 20 % EB e2)



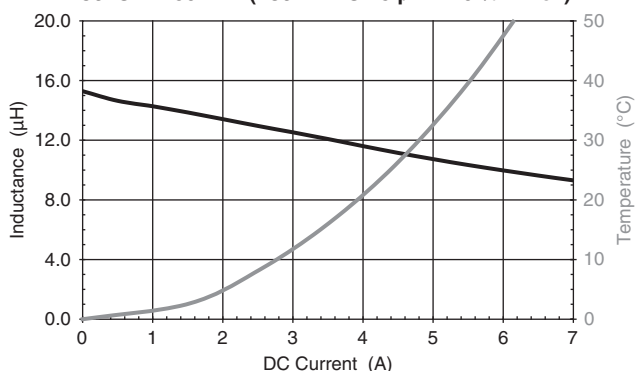
TJ32UEB4R7MHT (TJ3-HT 2U 4.7 μ H $\pm$ 20 % EB e2)



TJ32UEB100MHT (TJ3-HT 2U 10 μ H $\pm$ 20 % EB e2)

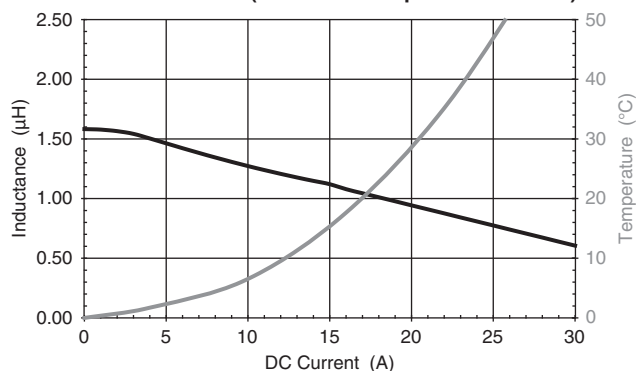


TJ32UEB150MHT (TJ3-HT 2U 15 μ H $\pm$ 20 % EB e2)

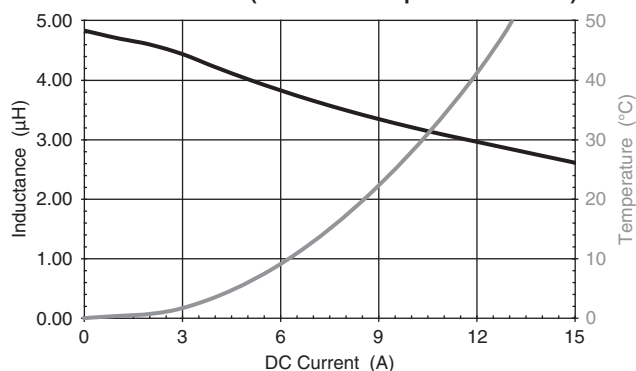


VERTICAL MOUNTED

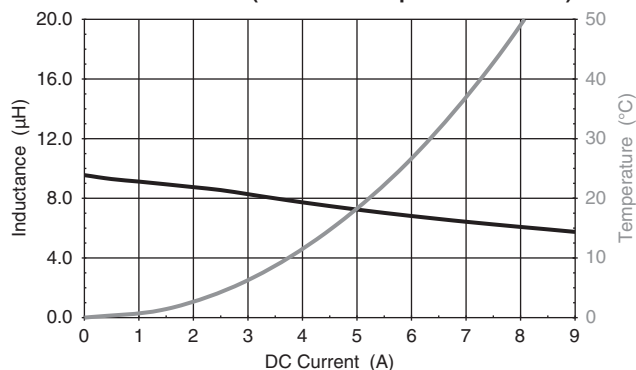
TJ31UEB1R5MHT (TJ3-HT 1U 1.5 μ H $\pm$ 20 % EB e2)



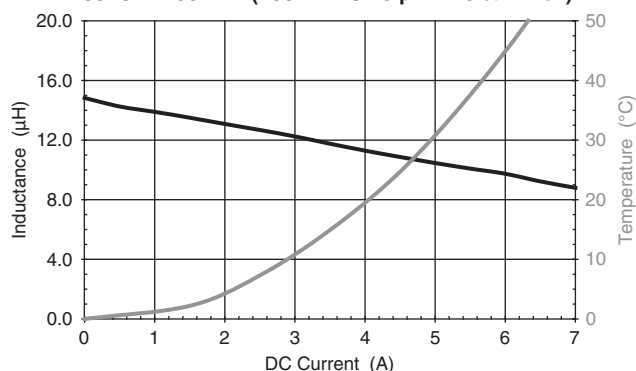
TJ31UEB4R7MHT (TJ3-HT 1U 4.7 μ H $\pm$ 20 % EB e2)



TJ31UEB100MHT (TJ3-HT 1U 10 μ H $\pm$ 20 % EB e2)



TJ31UEB150MHT (TJ3-HT 1U 15 μ H $\pm$ 20 % EB e2)

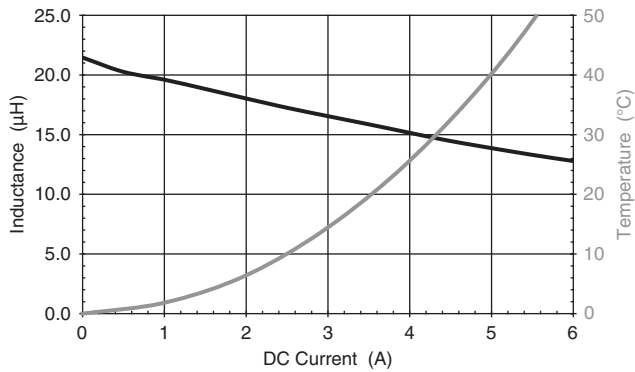




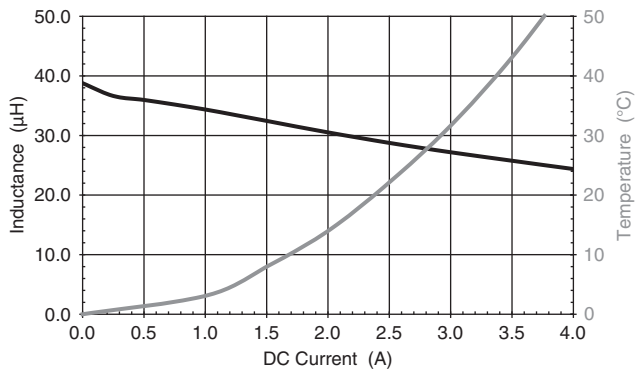
PERFORMANCE GRAPHS: INDUCTANCE VS. DC CURRENT AND DC CURRENT VS. TEMPERATURE

HORIZONTAL MOUNTED

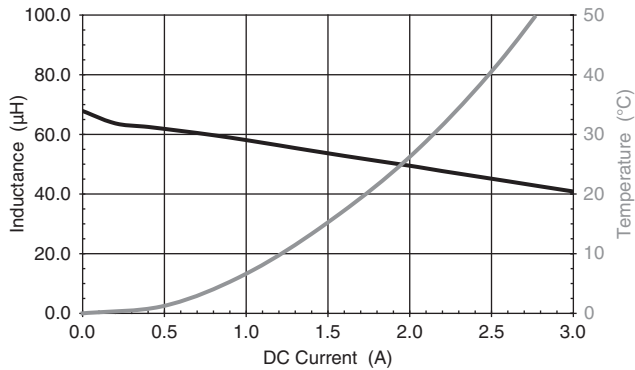
TJ32UEB220MHT (TJ3-HT 2U 22 μ H $\pm$ 20 % EB e2)



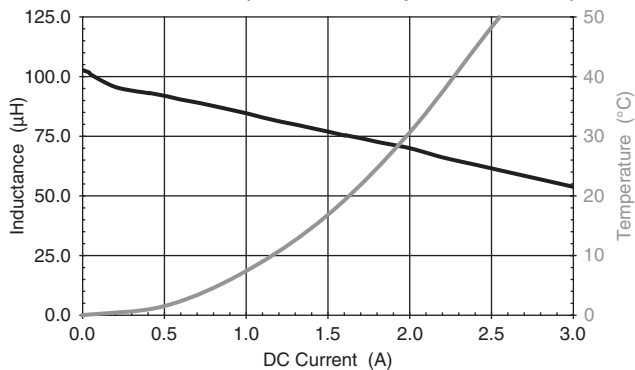
TJ32UEB390MHT (TJ3-HT 2U 39 μ H $\pm$ 20 % EB e2)



TJ32UEB680MHT (TJ3-HT 2U 68 μ H $\pm$ 20 % EB e2)

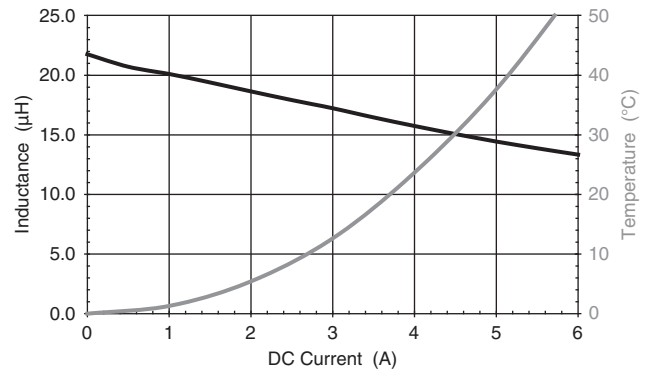


TJ32UEB101MHT (TJ3-HT 2U 100 μ H $\pm$ 20 % EB e2)

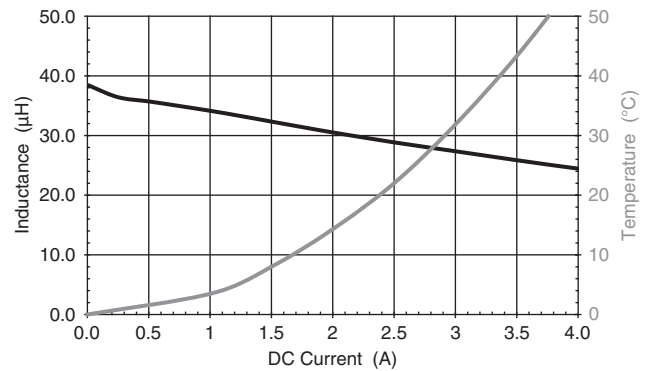


VERTICAL MOUNTED

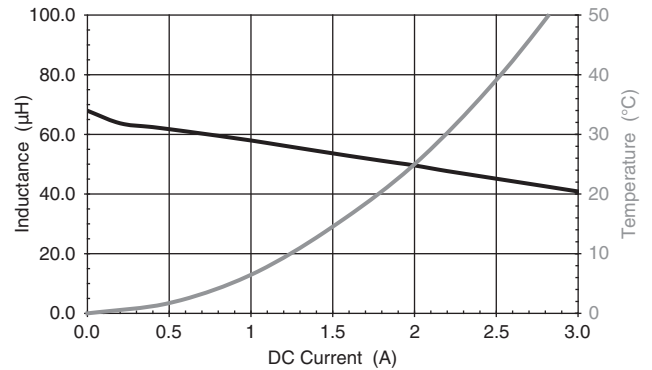
TJ31UEB220MHT (TJ3-HT 1U 22 μ H $\pm$ 20 % EB e2)



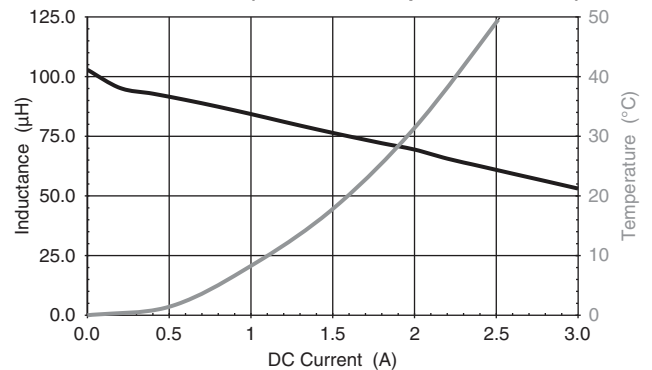
TJ31UEB390MHT (TJ3-HT 1U 39 μ H $\pm$ 20 % EB e2)



TJ31UEB680MHT (TJ3-HT 1U 68 μ H $\pm$ 20 % EB e2)



TJ31UEB101MHT (TJ3-HT 1U 100 μ H $\pm$ 20 % EB e2)





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