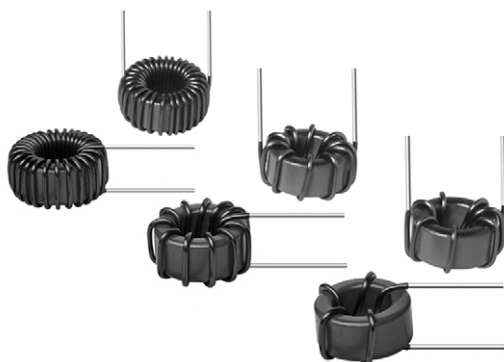


Vertical and Horizontal Mount, Through-Hole Toroid Inductors, High Temperature 200 °C, Radial Leaded



FEATURES

- Toroid diameter: 25.4 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)				
TJ5_ _EBR47MHT	0.47	20	0.0016	0.0024	0.0022	0.003	36	30	50	0.053 [1.346]
TJ5_ _EB1R2MHT	1.2	20	0.0028	0.0032	0.0032	0.0035	28	24	33	0.053 [1.346]
TJ5_ _EB2R2MHT	2.2	20	0.0036	0.0042	0.0042	0.0048	23	22	22	0.053 [1.346]
TJ5_ _EB3R9MHT	3.9	20	0.0045	0.0058	0.005	0.006	21	19.5	18	0.053 [1.346]
TJ5_ _EB4R7MHT	4.7	20	0.005	0.0064	0.0055	0.007	19	18.5	15	0.053 [1.346]
TJ5_ _EB6R8MHT	6.8	20	0.006	0.0074	0.0065	0.0078	18	17	14	0.053 [1.346]
TJ5_ _EB100MHT	10	20	0.0075	0.011	0.0084	0.012	15.8	15.5	10	0.053 [1.346]
TJ5_ _EB220MHT	22	20	0.015	0.019	0.016	0.02	10.8	10.5	7	0.042 [1.067]
TJ5_ _EB390MHT	39	20	0.02	0.025	0.022	0.028	9.2	9.1	5	0.042 [1.067]
TJ5_ _EB101MHT	100	20	0.05	0.069	0.054	0.075	5.5	5.5	3.0	0.034 [0.864]
TJ5_ _EB471MHT	470	20	0.17	0.29	0.175	0.3	2.8	2.8	1.5	0.027 [0.686]

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 50 °C
- (2) DC current that will cause L_0 to drop approx. 20 %

DIMENSIONS in inches [millimeters]

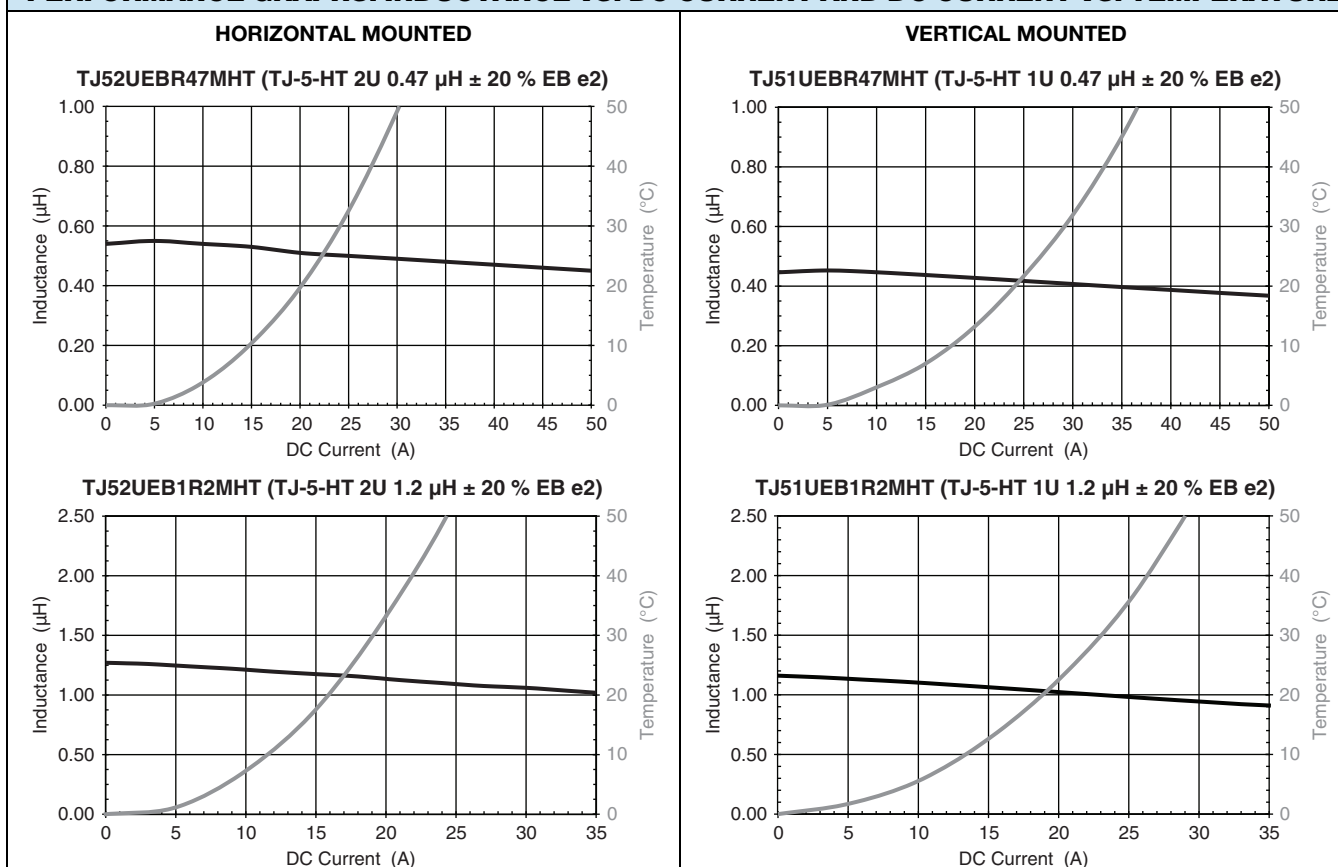
VERTICAL MOUNT (MOUNTING CODE - 1U)	HORIZONTAL MOUNT (MOUNTING CODE - 2U)

**ORDERING INFORMATION**

TJ5-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 5	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 = $\pm 20\%$	

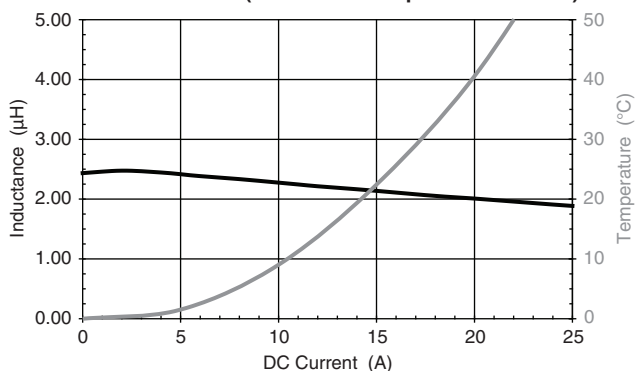
PERFORMANCE GRAPHS: INDUCTANCE VS. DC CURRENT AND DC CURRENT VS. TEMPERATURE



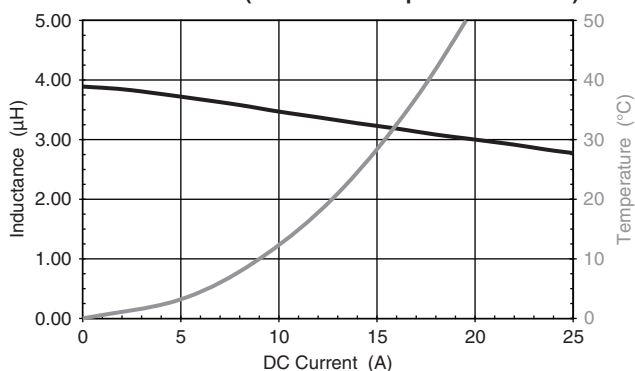
PERFORMANCE GRAPHS: INDUCTANCE VS. DC CURRENT AND DC CURRENT VS. TEMPERATURE

HORIZONTAL MOUNTED

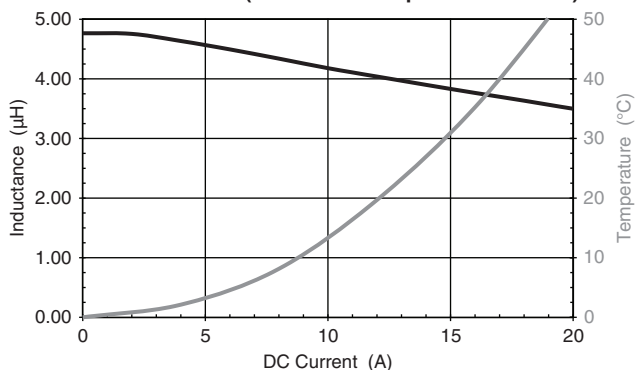
TJ52UEB2R2MHT (TJ-5-HT 2U 2.2 $\mu\text{H} \pm 20\%$ EB e2)



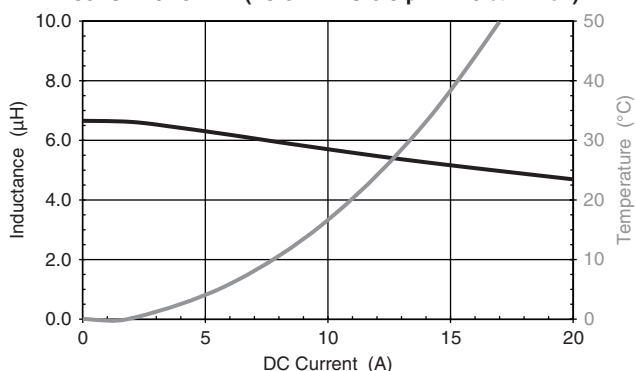
TJ52UEB3R9MHT (TJ-5-HT 2U 3.9 $\mu\text{H} \pm 20\%$ EB e2)



TJ52UEB4R7MHT (TJ-5-HT 2U 4.7 $\mu\text{H} \pm 20\%$ EB e2)

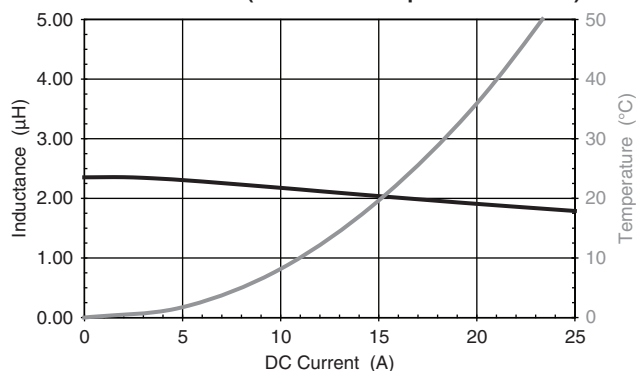


TJ52UEB6R8MHT (TJ-5-HT 2U 6.8 $\mu\text{H} \pm 20\%$ EB e2)

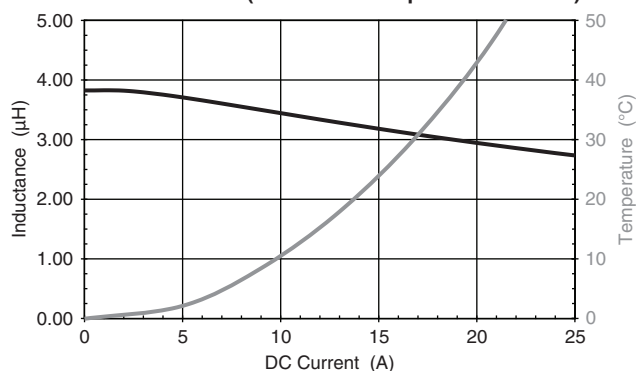


VERTICAL MOUNTED

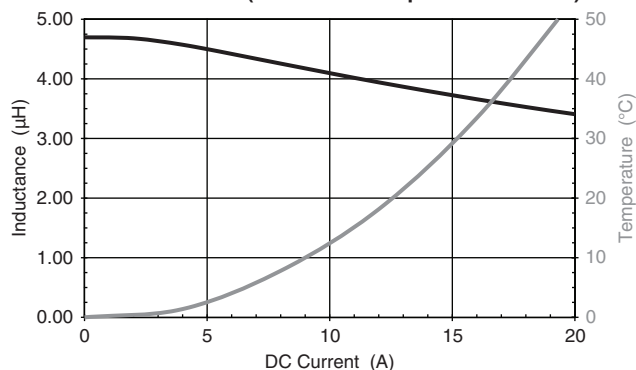
TJ51UEB2R2MHT (TJ-5-HT 1U 2.2 $\mu\text{H} \pm 20\%$ EB e2)



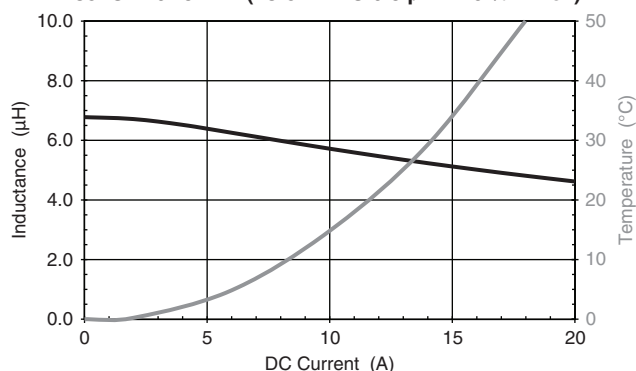
TJ51UEB3R9MHT (TJ-5-HT 1U 3.9 $\mu\text{H} \pm 20\%$ EB e2)



TJ51UEB4R7MHT (TJ-5-HT 1U 4.7 $\mu\text{H} \pm 20\%$ EB e2)



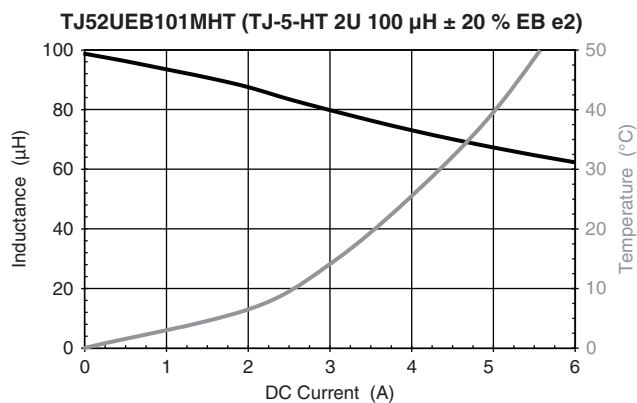
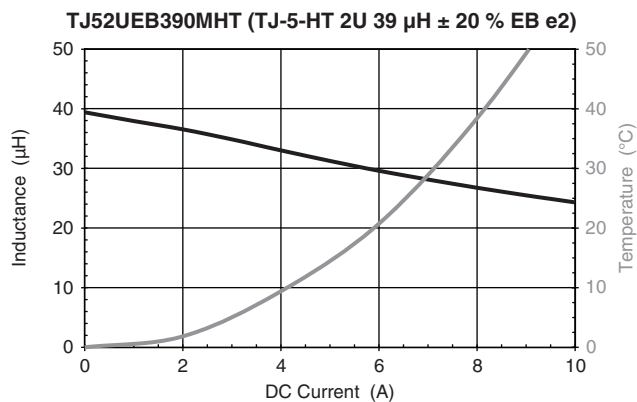
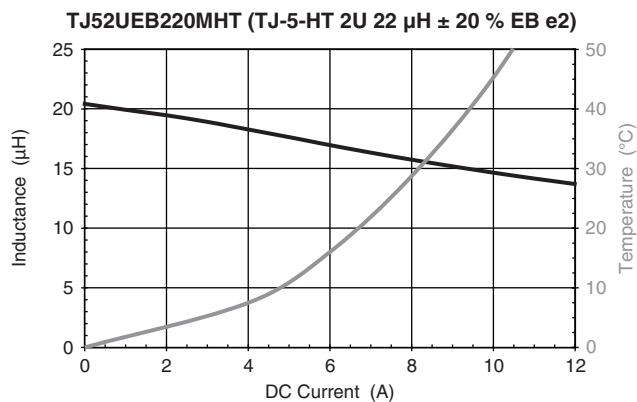
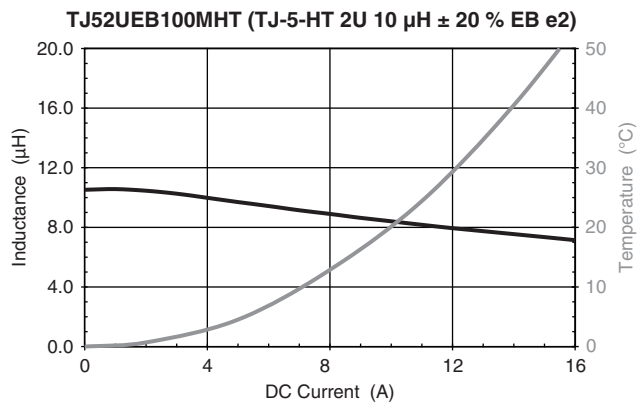
TJ51UEB6R8MHT (TJ-5-HT 1U 6.8 $\mu\text{H} \pm 20\%$ EB e2)



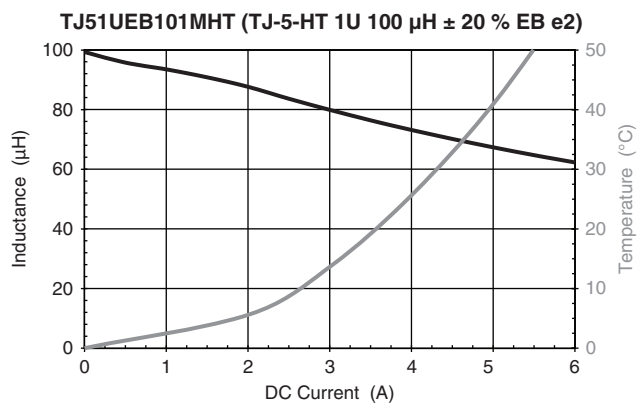
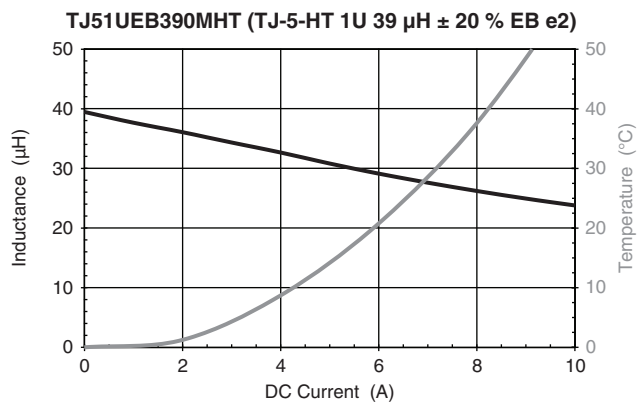
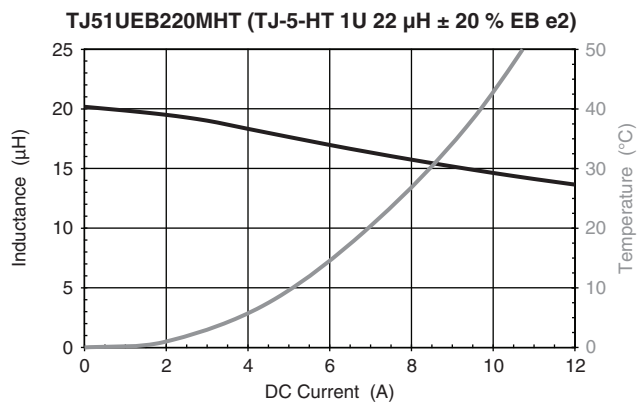
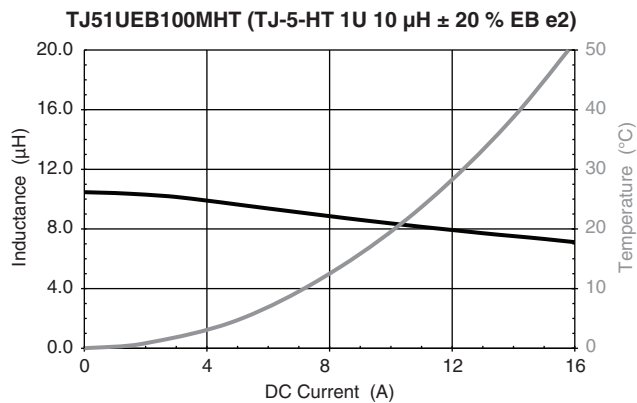


PERFORMANCE GRAPHS: INDUCTANCE VS. DC CURRENT AND DC CURRENT VS. TEMPERATURE

HORIZONTAL MOUNTED

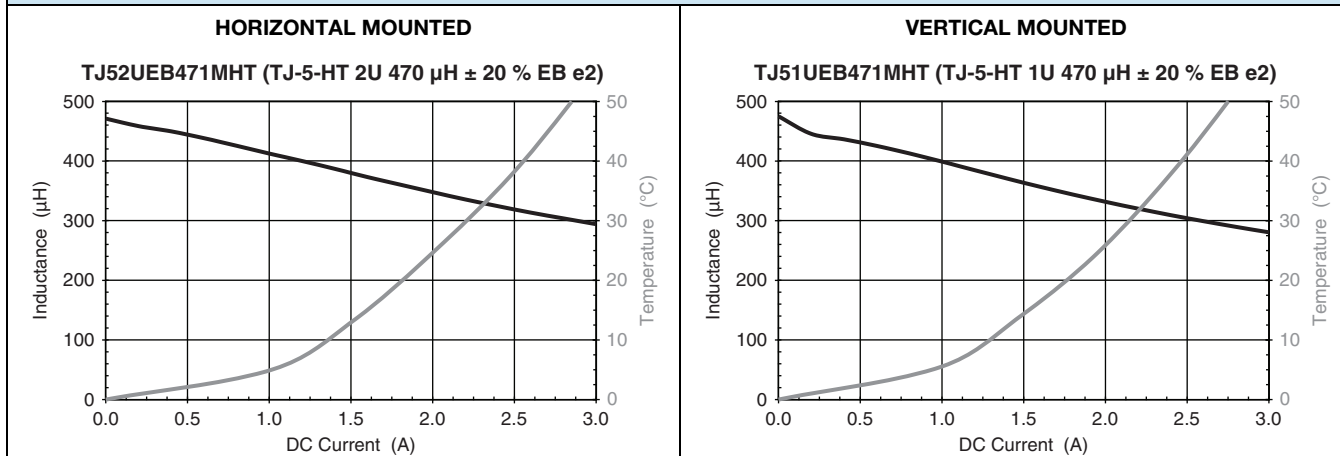


VERTICAL MOUNTED





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





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