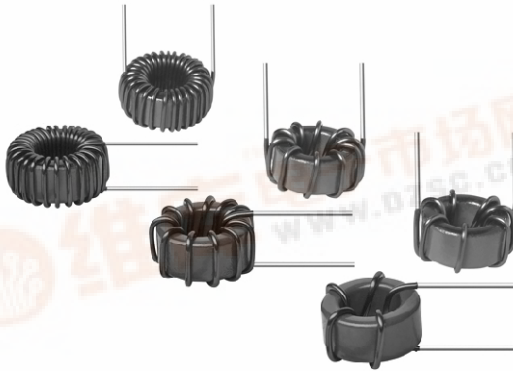




TJ5-HT

Vishay Dale

Toroid, High Current, High Temperature



FEATURES

- Printed circuit mounting
- Toroid design reduces EMI
- Vertical or horizontal mounting to optimize P.C. board layout
- High temperature rating of 200 °C - no aging
- 100 % lead (Pb)-free and RoHS compliant



RoHS
COMPLIANT

APPLICATIONS

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

STANDARD ELECTRICAL SPECIFICATIONS in inches [millimeters]

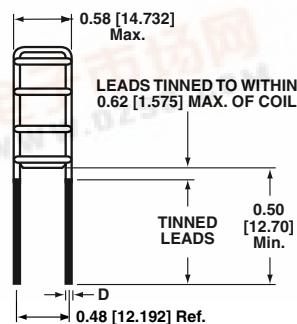
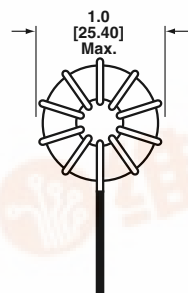
INDUCTANCE (μ H) L_0	TOLERANCE	DCR (VERTICAL MOUNT)		DCR (HORIZONTAL MOUNT)		RATED CURRENT ⁽¹⁾ VERTICAL MOUNT (AMPS)	RATED CURRENT ⁽¹⁾ HORIZONTAL MOUNT (AMPS)	SATURATION CURRENT ⁽²⁾ (AMPS)	LEAD DIAMETER D
		Ω TYP.	Ω MAX.	Ω TYP.	Ω MAX.				
0.47	20 %	0.0016	0.0024	0.0022	0.003	36	30	50	0.053 [1.346]
1.2	20 %	0.0028	0.0032	0.0032	0.0035	28	24	33	0.053 [1.346]
2.2	20 %	0.0036	0.0042	0.0042	0.0048	23	22	22	0.053 [1.346]
3.9	20 %	0.0045	0.0058	0.005	0.006	21	19.5	18	0.053 [1.346]
4.7	20 %	0.005	0.0064	0.0055	0.007	19	18.5	15	0.053 [1.346]
6.8	20 %	0.006	0.0074	0.0065	0.0078	18	17	14	0.053 [1.346]
10	20 %	0.0075	0.011	0.0084	0.012	15.8	15.5	10	0.053 [1.346]
22	20 %	0.015	0.019	0.016	0.02	10.8	10.5	7	0.042 [1.067]
39	20 %	0.02	0.025	0.022	0.028	9.2	9.1	5	0.042 [1.067]
100	20 %	0.05	0.069	0.054	0.075	5.5	5.5	3.0	0.034 [0.864]
470	20 %	0.17	0.29	0.175	0.3	2.8	2.8	1.5	0.027 [0.686]

Note

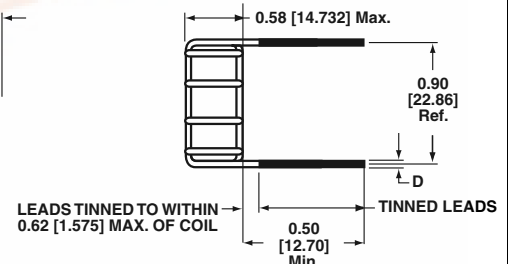
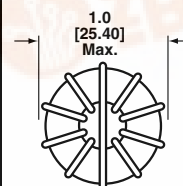
1. DC current that will cause an approx. ΔT of 50 °C
2. DC current that will cause L_0 to drop approx. 20 %

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

DIMENSIONS in inches [millimeters]



VERTICAL MOUNT
(Mounting/Coating Code - 1U)



HORIZONTAL MOUNT
(Mounting/Coating Code - 2U)

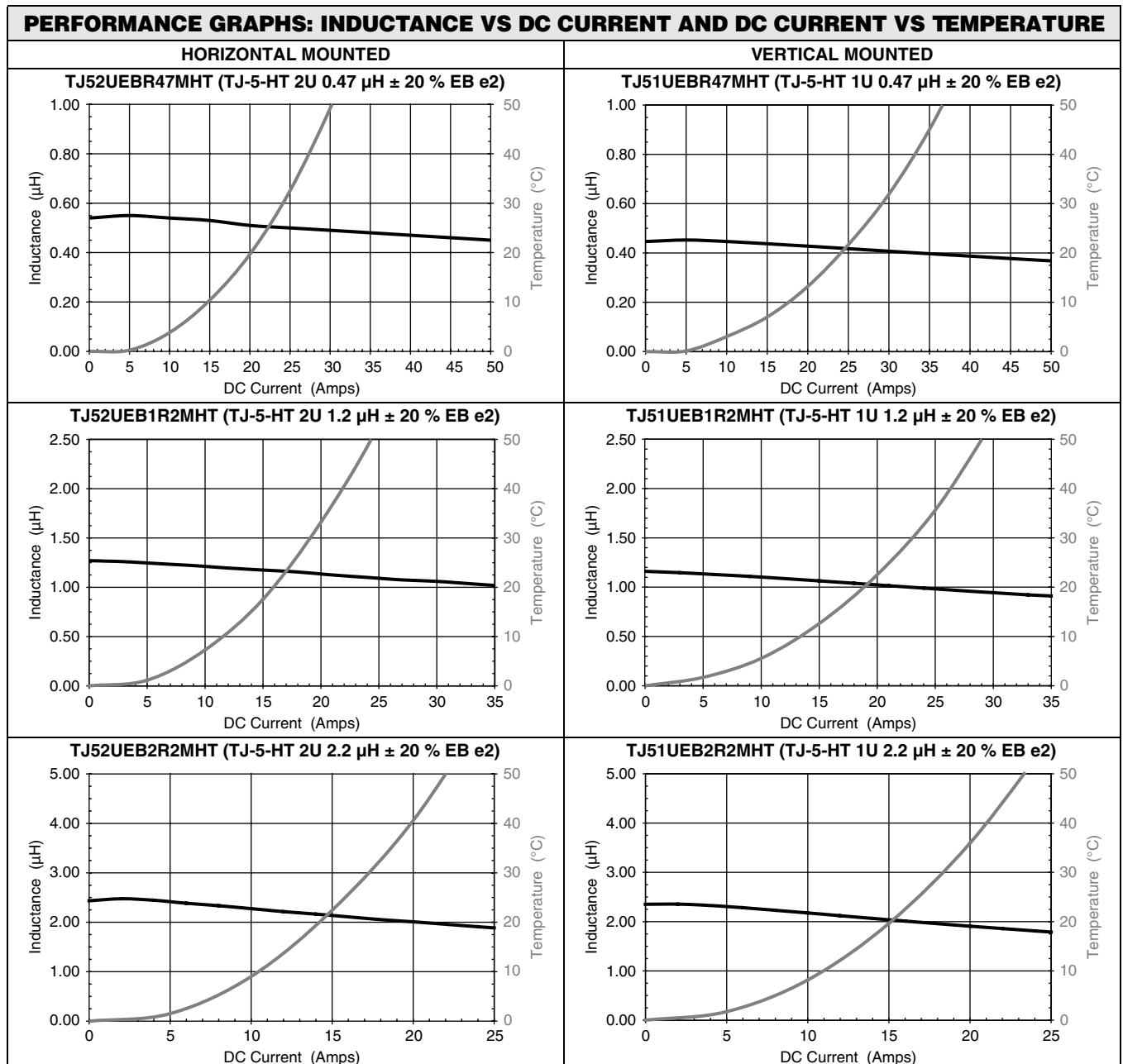
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DESCRIPTION					
TJ5-HT MODEL	1U MOUNTING/COATING CODE	10 μ H INDUCTANCE VALUE	$\pm 20\%$ INDUCTANCE TOLERANCE	EB PACKAGE CODE	e2 JEDEC LEAD (Pb)-FREE STANDARD
GLOBAL PART NUMBER					
T J 5 MODEL	1 U MOUNTING/COATING CODE	E B PACKAGE CODE	1 0 0 INDUCTANCE VALUE	M INDUCTANCE TOLERANCE	H T SERIES



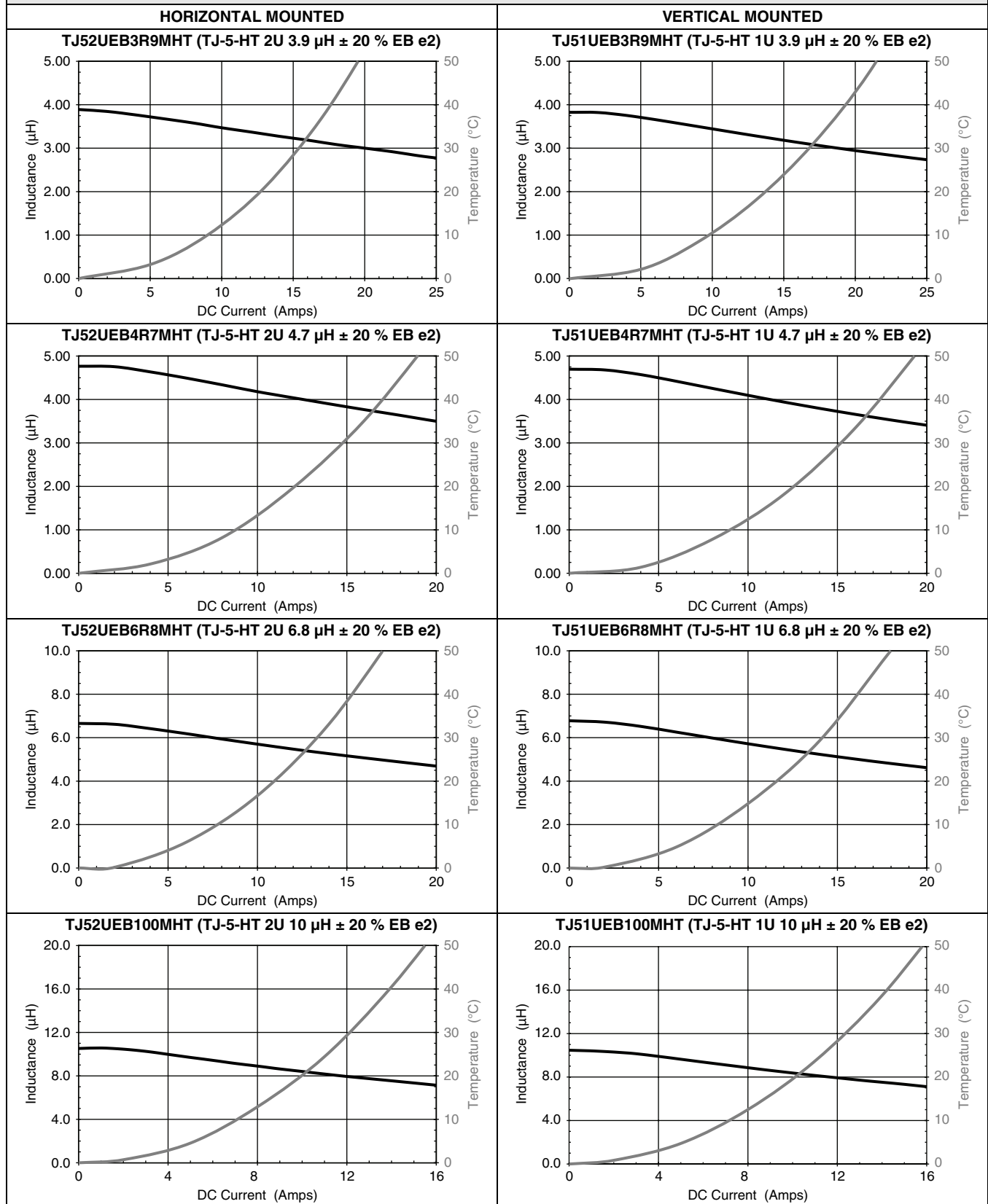
TJ5-HT

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



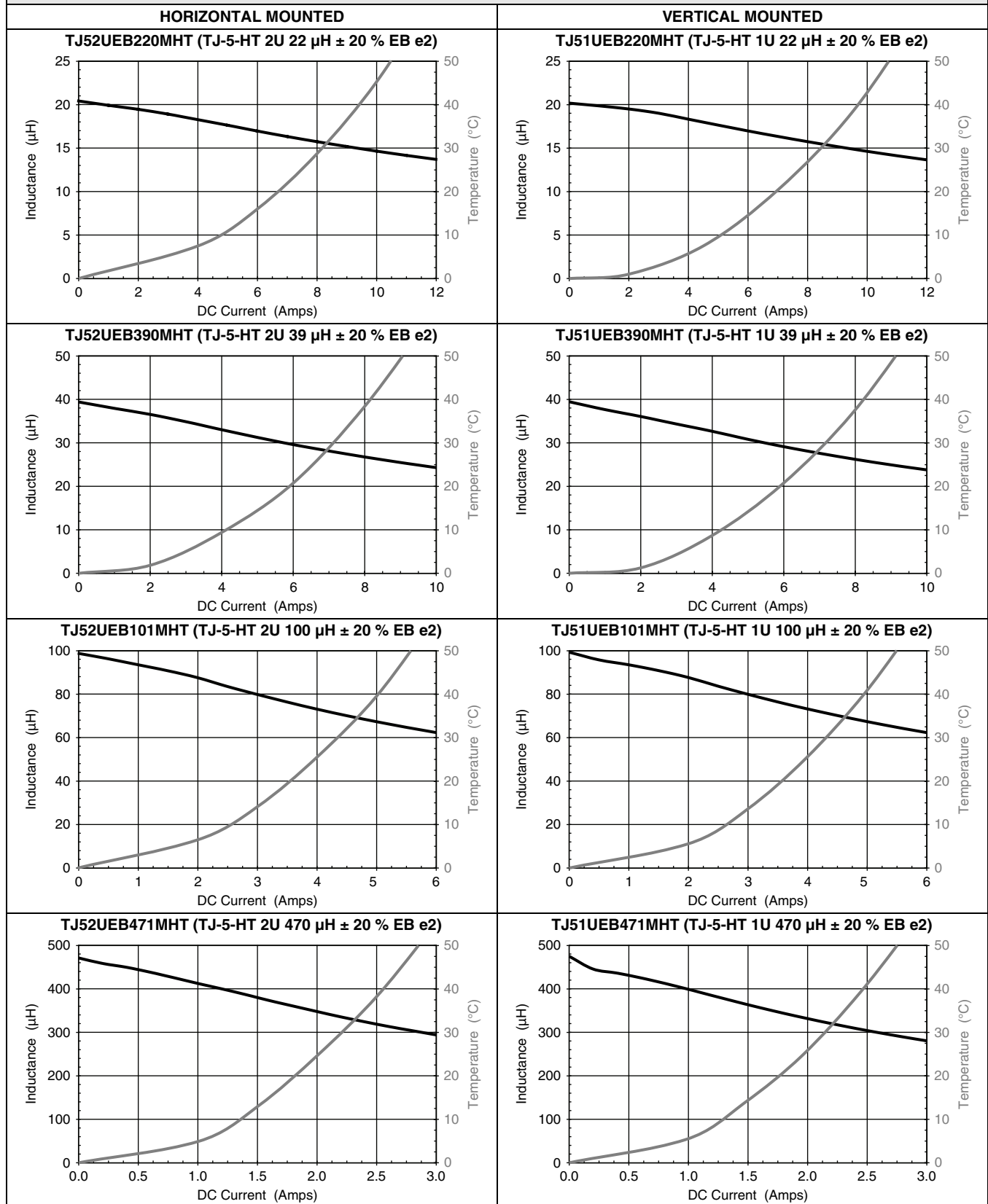
TJ5-HT

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





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