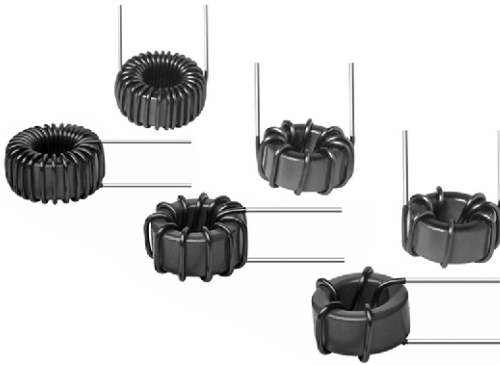


Toroid, High Current, High Temperature, Radial Leaded


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
- Compliant to RoHS directive 2002/95/EC


RoHS
COMPLIANT

APPLICATIONS

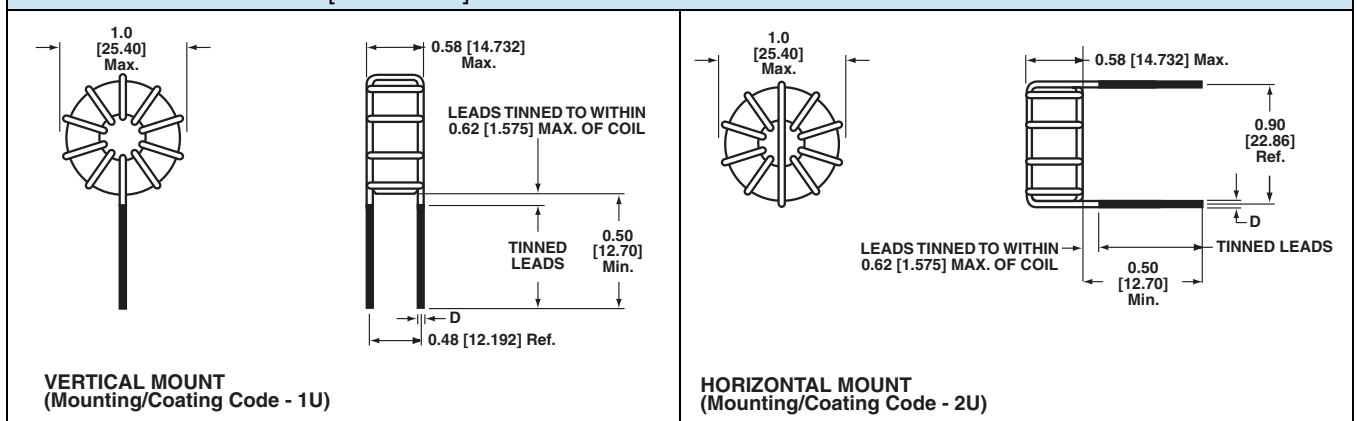
- Switching power supplies
- EMI/RFI filtering
- Output chokes

STANDARD ELECTRICAL SPECIFICATIONS in inches [millimeters]

| IND. L ₀ (μH) | 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) | | | | |
| 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] |

Notes

- Operating temperature (ambient + ΔT): - 55 °C to + 200 °C, inductance tested at 0.25 V_{RMS}, 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 50 °C
- ⁽²⁾ DC current that will cause L₀ to drop approx. 20 %

DIMENSIONS in inches [millimeters]




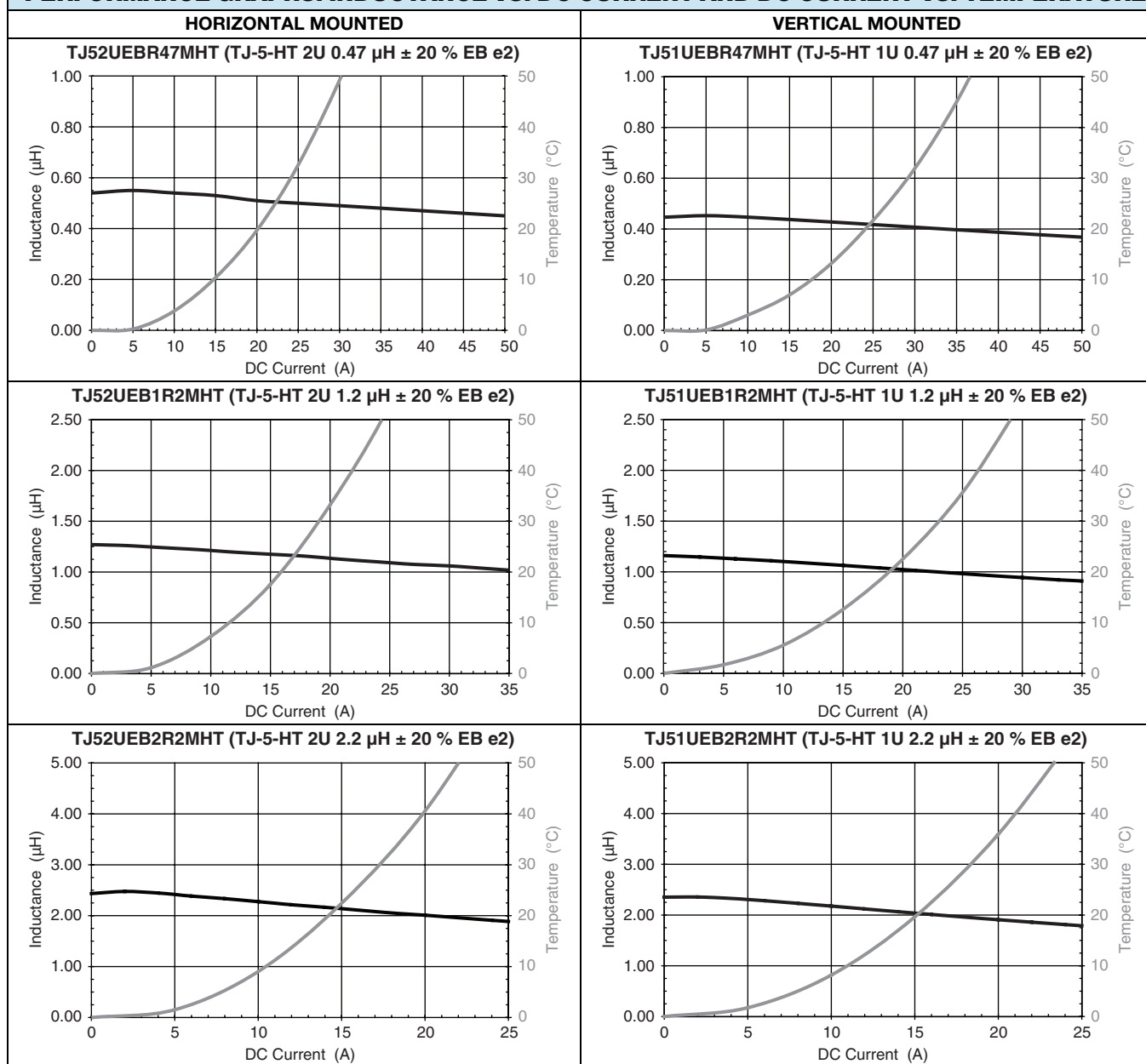
ORDERING INFORMATION

| | | | | | |
|---------------|-----------------------|-----------------------------|------------------------------|--------------|-------------------------------|
| TJ5-HT | 1U | 10 μH | $\pm 20\%$ | EB | e2 |
| MODEL | MOUNTING/COATING 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/COATING CODE | | PACKAGE CODE | | INDUCTANCE VALUE | | | INDUCTANCE TOLERANCE | SERIES | |

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

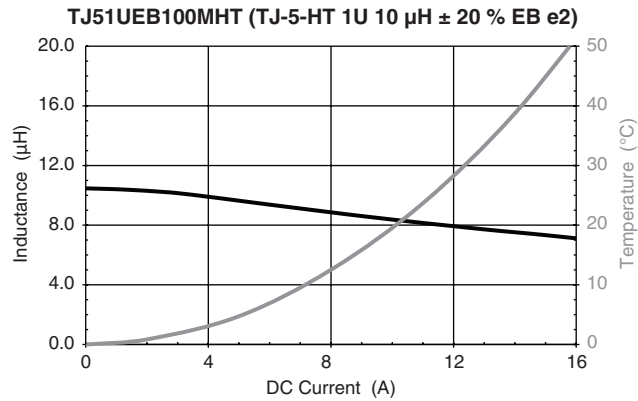
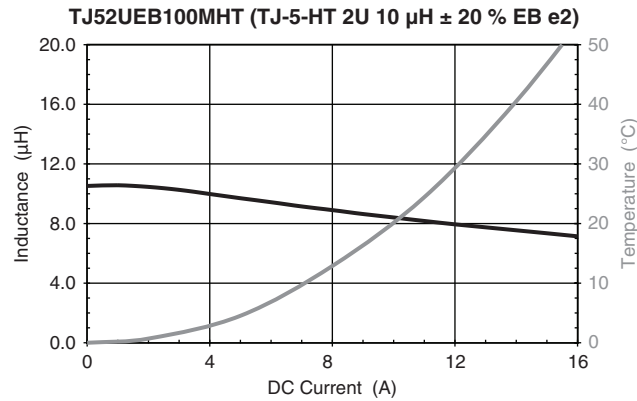
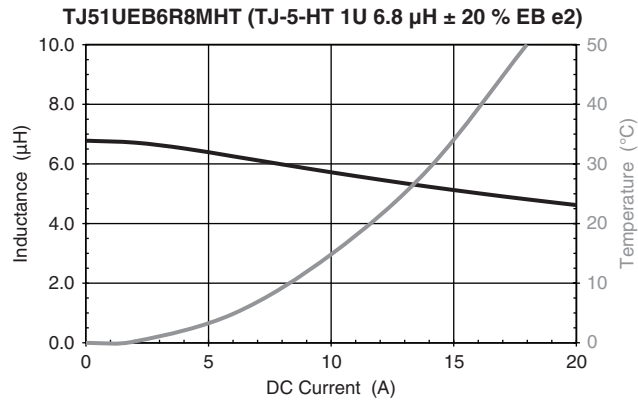
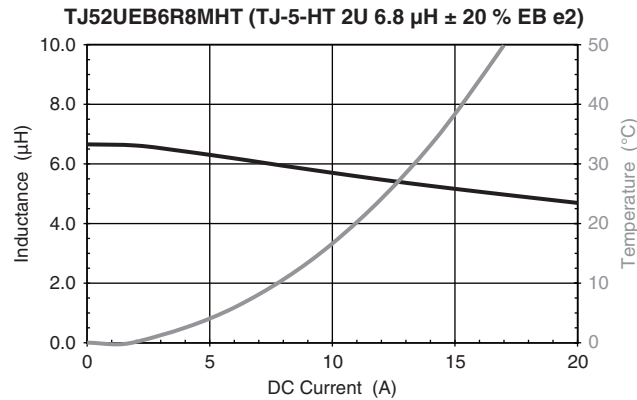
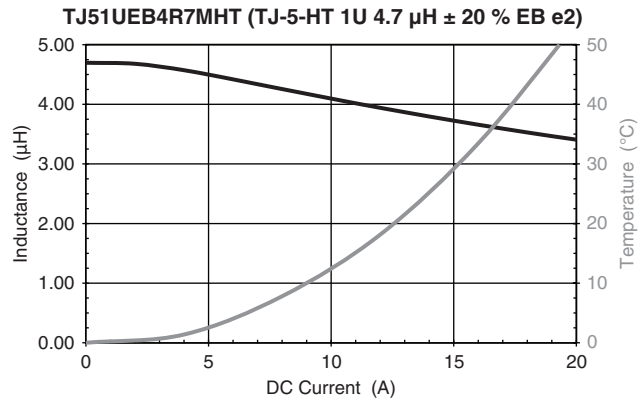
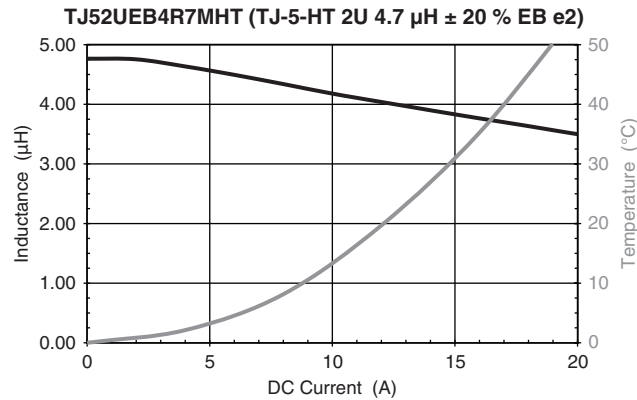
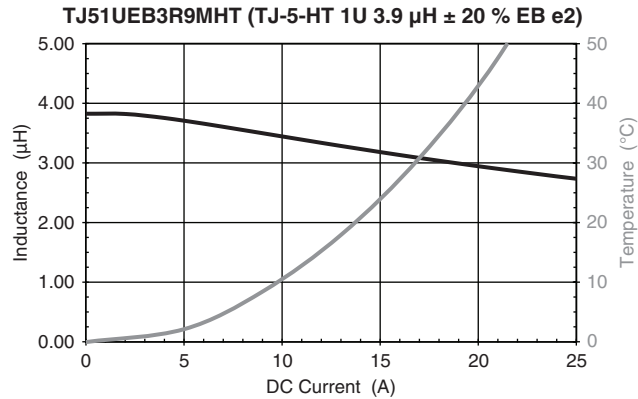
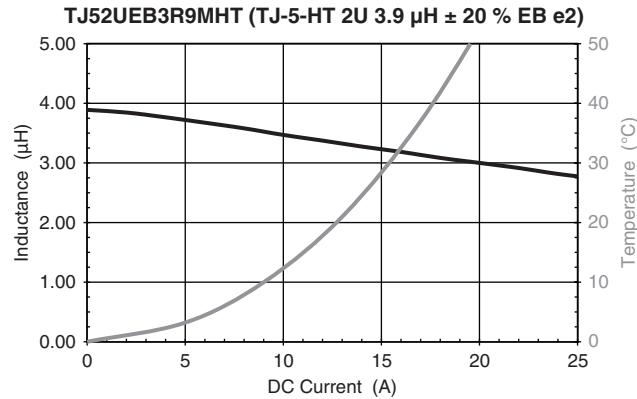




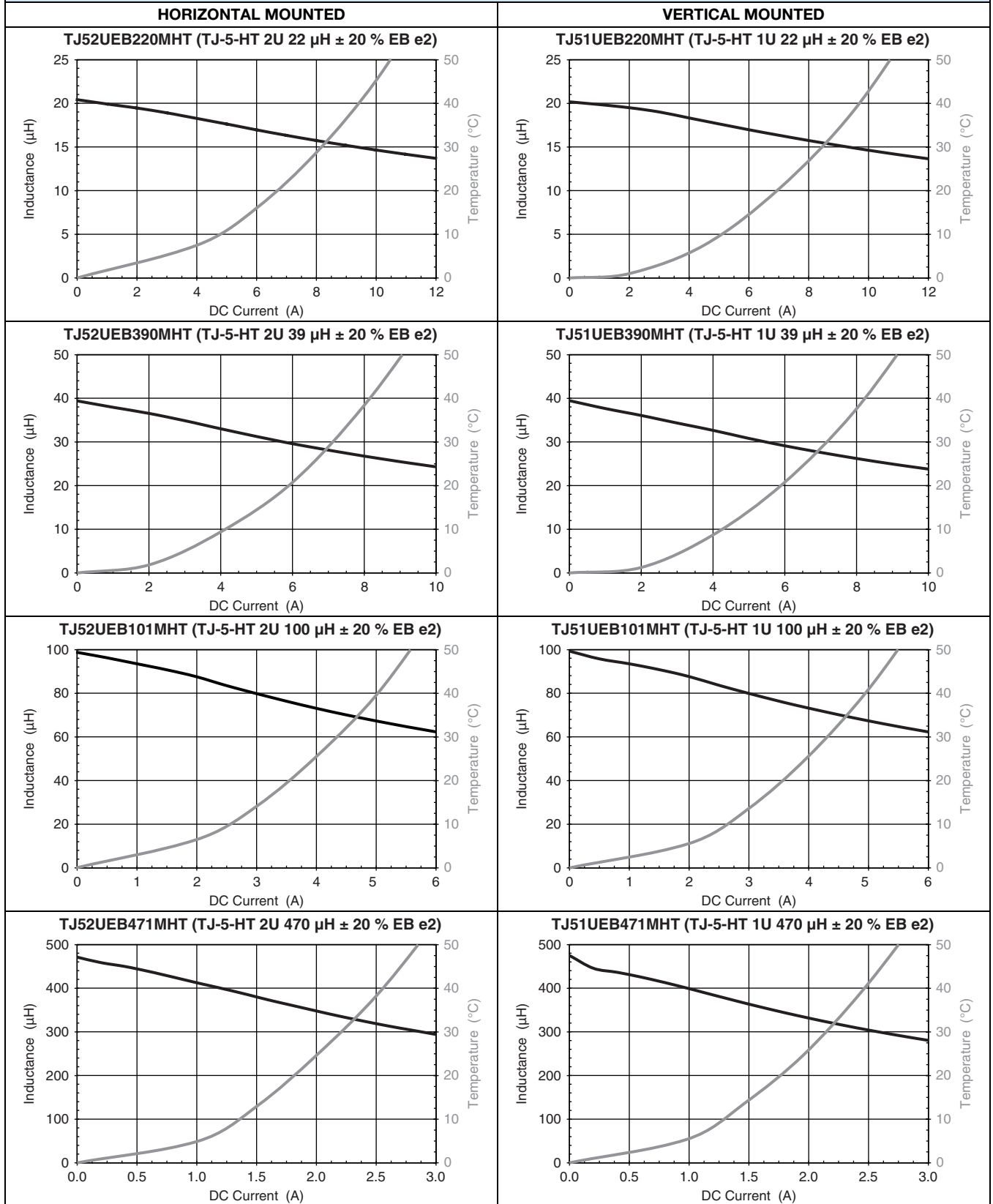
PERFORMANCE GRAPHS: INDUCTANCE VS. DC CURRENT AND DC CURRENT VS. TEMPERATURE

HORIZONTAL MOUNTED

VERTICAL MOUNTED



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





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