



SMD Power Inductors MTPRC Series

Features

- * Suitable for large current
- * Ideal for DC-DC converter inductor applications in portable personal computer
- * Available on tape and reel for auto-insertion
- * Available in magnetically shielded and low DC resistance

Applications

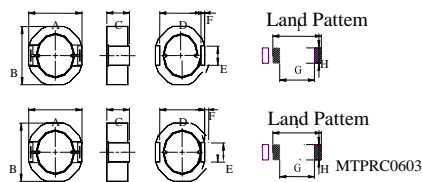
- * Portable communication equipment
- * Notebook PC, digital camera, LCD television set
- * Power supply for VTR, OA equipment
- * DC / DC converters

Product Identifications

MTPRC □□□ - □□□ □
(1) (2) (3) (4)

- (1) Type
- (2) Dimensions
- (3) Inductance
- (4) Tolerance

Shapes and Dimensions





SMD Power Inductors

MTPRC Series

| TYPE | A | B | C | D | E | F | G | H | I |
|-----------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| MTPRC0602 | 6.3MAX | 6.2MAX | 2.5MAX | 4.8REF | 2.0REF | 0.6REF | 4.6REF | 2.6REF | 6.6REF |
| MTPRC0603 | 6.3MAX | 6.2MAX | 3.0MAX | 4.8REF | 2.0REF | 0.6REF | 4.6REF | 2.6REF | 6.6REF |

Electrical Characteristics

MTPRC 0602

| Part number | Inductance (μ H) | Test Frequency | DC Resistance (Ω) MAX. | Rated Current (A) MAX. |
|----------------|-----------------------|----------------|---------------------------------|------------------------|
| MTPRC0602-1R0□ | 1.0 \pm 20% | 10KHz | 0.011 | 3.48 |
| MTPRC0602-1R5□ | 1.5 \pm 20% | 10KHz | 0.014 | 2.83 |
| MTPRC0602-2R0□ | 2.0 \pm 20% | 10KHz | 0.017 | 2.44 |
| MTPRC0602-3R3□ | 3.3 \pm 20% | 10KHz | 0.024 | 1.89 |
| MTPRC0602-4R3□ | 4.3 \pm 20% | 10KHz | 0.031 | 1.65 |
| MTPRC0602-6R2□ | 6.2 \pm 20% | 10KHz | 0.043 | 1.37 |
| MTPRC0602-100□ | 10 \pm 20% | 10KHz | 0.064 | 1.07 |
| MTPRC0602-120□ | 12 \pm 20% | 10KHz | 0.075 | 0.97 |
| MTPRC0602-150□ | 15 \pm 20% | 10KHz | 0.087 | 0.87 |
| MTPRC0602-180□ | 18 \pm 20% | 10KHz | 0.110 | 0.79 |
| MTPRC0602-220□ | 22 \pm 20% | 10KHz | 0.130 | 0.71 |
| MTPRC0602-270□ | 27 \pm 20% | 10KHz | 0.170 | 0.64 |
| MTPRC0602-330□ | 33 \pm 20% | 10KHz | 0.195 | 0.58 |
| MTPRC0602-390□ | 39 \pm 20% | 10KHz | 0.245 | 0.53 |
| MTPRC0602-470□ | 47 \pm 20% | 10KHz | 0.290 | 0.48 |
| MTPRC0602-560□ | 56 \pm 20% | 10KHz | 0.345 | 0.44 |
| MTPRC0602-680□ | 68 \pm 20% | 10KHz | 0.400 | 0.40 |
| MTPRC0602-820□ | 82 \pm 20% | 10KHz | 0.465 | 0.36 |
| MTPRC0602-101□ | 100 \pm 20% | 10KHz | 0.650 | 0.33 |

Electrical Characteristics

MTPRC 0603

| Part number | Inductance (μ H) | Test Frequency | DC Resistance (Ω) MAX. | Rated Current (A) MAX. |
|----------------|-----------------------|----------------|---------------------------------|------------------------|
| MTPRC0603-1R0□ | 1.0 \pm 20% | 10KHz | 0.011 | 3.59 |
| MTPRC0603-1R5□ | 1.5 \pm 20% | 10KHz | 0.013 | 2.93 |
| MTPRC0603-2R2□ | 2.2 \pm 20% | 10KHz | 0.016 | 2.42 |
| MTPRC0603-3R6□ | 3.6 \pm 20% | 10KHz | 0.021 | 1.89 |
| MTPRC0603-4R7□ | 4.7 \pm 20% | 10KHz | 0.027 | 1.66 |
| MTPRC0603-6R2□ | 6.2 \pm 20% | 10KHz | 0.032 | 1.45 |



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|----------------|---------|-------|-------|------|
| MTPRC0603-100□ | 10±20% | 10KHz | 0.049 | 1.14 |
| MTPRC0603-120□ | 12±20% | 10KHz | 0.052 | 1.04 |
| MTPRC0603-150□ | 15±20% | 10KHz | 0.062 | 0.93 |
| MTPRC0603-180□ | 18±20% | 10KHz | 0.074 | 0.85 |
| MTPRC0603-220□ | 22±20% | 10KHz | 0.095 | 0.77 |
| MTPRC0603-270□ | 27±20% | 10KHz | 0.120 | 0.70 |
| MTPRC0603-330□ | 33±20% | 10KHz | 0.140 | 0.63 |
| MTPRC0603-390□ | 39±20% | 10KHz | 0.150 | 0.58 |
| MTPRC0603-470□ | 47±20% | 10KHz | 0.185 | 0.53 |
| MTPRC0603-560□ | 56±20% | 10KHz | 0.220 | 0.48 |
| MTPRC0603-680□ | 68±20% | 10KHz | 0.270 | 0.44 |
| MTPRC0603-820□ | 82±20% | 10KHz | 0.330 | 0.40 |
| MTPRC0603-101□ | 100±20% | 10KHz | 0.415 | 0.36 |

□ Tolerance : J = ± 5% , K = ± 10% , L = ± 15% , M = ± 20% , N = ± 30%