

# MT-553<sup>SERIES</sup>

## SMD Power Inductors

# MINNTRONIX

Wind Up the Best®



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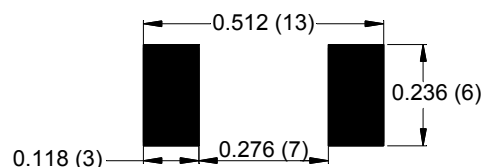
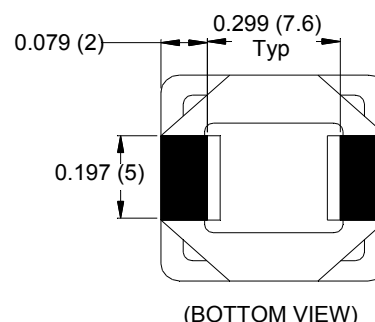
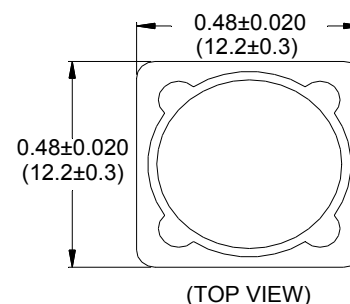


- Magnetically shielded
- High current—up to 8Adc saturation current
- Very low DCR
- Custom versions available
- Available in Tape & Reel packaging

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| Part Number | Inductance <sup>1</sup><br>(μH) | DCR<br>(Ω max) | Isat <sup>2</sup><br>(Adc) |
|-------------|---------------------------------|----------------|----------------------------|
| MT-553-1R3  | 1.3                             | 0.012          | 8.0                        |
| MT-553-2R1  | 2.1                             | 0.014          | 7.0                        |
| MT-553-3R1  | 3.1                             | 0.017          | 6.0                        |
| MT-553-4R4  | 4.4                             | 0.020          | 5.0                        |
| MT-553-5R8  | 5.8                             | 0.021          | 4.4                        |
| MT-553-7R5  | 7.5                             | 0.024          | 4.2                        |
| MT-553-100  | 10                              | 0.029          | 4.0                        |
| MT-553-120  | 12                              | 0.031          | 3.5                        |
| MT-553-150  | 15                              | 0.034          | 3.3                        |
| MT-553-180  | 18                              | 0.039          | 3.0                        |
| MT-553-220  | 22                              | 0.051          | 2.8                        |
| MT-553-270  | 27                              | 0.057          | 2.3                        |
| MT-553-330  | 33                              | 0.062          | 2.1                        |
| MT-553-390  | 39                              | 0.077          | 2.0                        |
| MT-553-470  | 47                              | 0.086          | 1.8                        |
| MT-553-560  | 56                              | 0.110          | 1.7                        |
| MT-553-680  | 68                              | 0.120          | 1.5                        |
| MT-553-820  | 82                              | 0.150          | 1.4                        |
| MT-553-101  | 100                             | 0.175          | 1.3                        |
| MT-553-121  | 120                             | 0.220          | 1.1                        |
| MT-553-151  | 150                             | 0.280          | 1.0                        |
| MT-553-181  | 180                             | 0.290          | 0.9                        |
| MT-553-221  | 220                             | 0.400          | 0.8                        |
| MT-553-271  | 270                             | 0.460          | 0.75                       |
| MT-553-331  | 330                             | 0.510          | 0.68                       |
| MT-553-391  | 390                             | 0.690          | 0.65                       |
| MT-553-471  | 470                             | 0.770          | 0.58                       |
| MT-553-561  | 560                             | 0.910          | 0.54                       |
| MT-553-681  | 680                             | 1.200          | 0.48                       |
| MT-553-821  | 820                             | 1.340          | 0.43                       |
| MT-553-102  | 1000                            | 1.530          | 0.40                       |

Mechanical Dimensions:



RECOMMENDED PCB LAYOUT

UNIT : Inch (mm)

1. Inductance tested at 100kHz, 0.1Vrms, 0Adc.  
Tolerance: 1.3μH to 7.5μH -20%/+30%, 10μH to 1000μH±20%
2. Inductance drop = 25% typ. at rated Isat.
3. ΔT = 45°C rise typ.
4. Operating temperature range -40° to +85°C
5. Electrical specifications at 25°C

Specifications subject to change. Custom versions of any Minntronix Products are available upon request.

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