

# MT-540<sup>SERIES</sup>

## SMD Power Inductors

**MINNTRONIX**

Wind Up the Best®



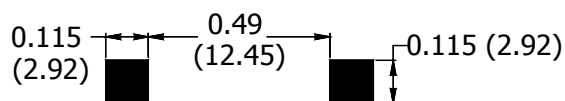
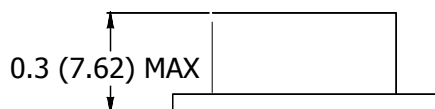
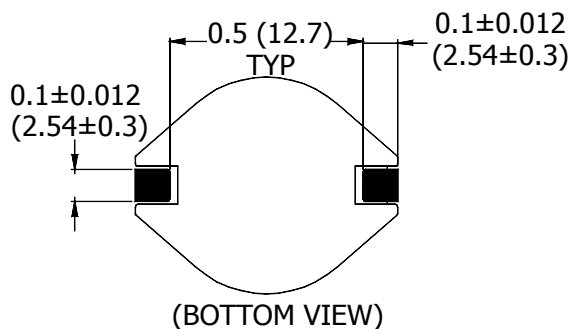
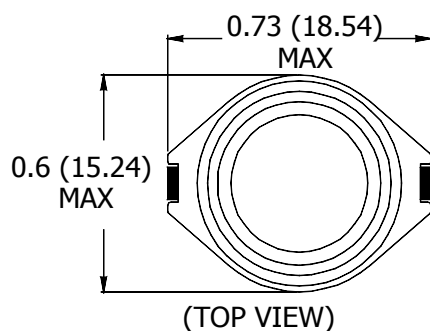
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MT-540 SERIES



- Magnetically shielded
- High current rating - up to 3.9Arms 8.0Adc saturation current
- Very low DCR
- Flat top for automatic assembly
- Custom versions available
- Available in Tape & Reel packaging

### Mechanical Dimensions:



RECOMMENDED PCB LAYOUT

UNIT: Inch (mm)

| Part Number | Inductance <sup>1</sup><br>( $\mu\text{H} \pm 20\%$ ) | DCR<br>(m $\Omega$ max) | Isat <sup>2</sup><br>(Adc) | Irms <sup>3</sup><br>(A) |
|-------------|-------------------------------------------------------|-------------------------|----------------------------|--------------------------|
| MT-540-100  | 10                                                    | 40                      | 8.00                       | 3.90                     |
| MT-540-150  | 15                                                    | 48                      | 7.00                       | 3.40                     |
| MT-540-220  | 22                                                    | 59                      | 6.00                       | 3.10                     |
| MT-540-330  | 33                                                    | 75                      | 5.00                       | 2.80                     |
| MT-540-470  | 47                                                    | 97                      | 4.00                       | 2.40                     |
| MT-540-680  | 68                                                    | 138                     | 3.00                       | 2.00                     |
| MT-540-101  | 100                                                   | 207                     | 2.40                       | 1.70                     |
| MT-540-151  | 150                                                   | 293                     | 2.10                       | 1.30                     |
| MT-540-221  | 220                                                   | 470                     | 1.90                       | 1.10                     |
| MT-540-331  | 330                                                   | 780                     | 1.10                       | 0.86                     |
| MT-540-471  | 470                                                   | 1080                    | 1.10                       | 0.73                     |
| MT-540-681  | 680                                                   | 1400                    | 0.96                       | 0.64                     |
| MT-540-102  | 1000                                                  | 2010                    | 0.80                       | 0.53                     |

1. Inductance tested at 100kHz, 0.1Vrms, 0Adc

2. Inductance drop = 10% typ. at rated Isat

3.  $\Delta T = 40^\circ\text{C}$  rise typ.

4. Operating temperature range  $-40^\circ\text{C}$  to  $+85^\circ\text{C}$

5. Electrical specifications at  $25^\circ\text{C}$

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