

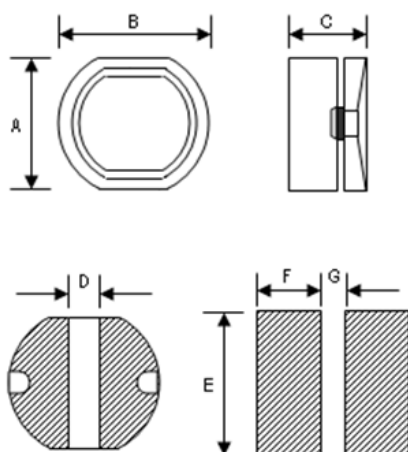
## TPI series

### FEATURES

1. Magnetically shielded construction
2. Compact and thin
3. Excellent terminal strength construction.
4. With electrode plating on the ferrite core and small area for the need of high mounting density.



### DIMENSIONS



| Size | A(mm)    | B(mm)    | C(mm)    | D(mm)    | E(mm) | F(mm) | G(mm) |
|------|----------|----------|----------|----------|-------|-------|-------|
| 0603 | 5.50±0.4 | 6.50±0.4 | 3.50±0.5 | 1.45 ref | 5.50  | 2.25  | 1.70  |
| 0705 | 7.00±0.4 | 7.50±0.4 | 4.90±0.5 | 2.10 ref | 7.50  | 4.00  | 2.00  |
| 1005 | 9.00±0.4 |          | 5.50±0.5 | 2.90 ref | 9.50  | 5.00  | 2.50  |

### APPLICATIONS

- Excellent for VTR, OA equipment, LCD television sets, notebook PC,
- portable communication equipments, DC/DC, etc.

### PARTNUMBER

|     |      |   |     |   |   |   |
|-----|------|---|-----|---|---|---|
| TPI | 0603 | — | 100 | M | F | V |
| A   | B    |   | C   | D | E | F |

A: Series  
 B: Dimension  
 C: Inductance  
 D: Inductance Tolerance K = ±10%  
 L = ±15% M = ±20%  
 E: Lead Free Code  
 F: ID Code



## Power Inductor

### SMD / Unshielded Type



### TPI 0603

| Part Number  | Inductance (μH) | Test Frequency (Hz) | DCR (Ω) Max | Rated Current (A) |
|--------------|-----------------|---------------------|-------------|-------------------|
| TPI0603-100M | 10              | 1K                  | 0.140       | 1.000             |
| TPI0603-120M | 12              | 1K                  | 0.160       | 0.940             |
| TPI0603-150M | 15              | 1K                  | 0.180       | 0.860             |
| TPI0603-180M | 18              | 1K                  | 0.250       | 0.780             |
| TPI0603-220M | 22              | 1K                  | 0.320       | 0.760             |
| TPI0603-270M | 27              | 1K                  | 0.360       | 0.640             |
| TPI0603-330M | 33              | 1K                  | 0.410       | 0.610             |
| TPI0603-390M | 39              | 1K                  | 0.470       | 0.530             |
| TPI0603-470M | 47              | 1K                  | 0.510       | 0.500             |
| TPI0603-560M | 56              | 1K                  | 0.720       | 0.460             |
| TPI0603-680M | 68              | 1K                  | 0.820       | 0.420             |

### TPI 0705

| Part Number  | Inductance (μH) | Test Frequency (Hz) | DCR (Ω) Max | Rated Current (A) |
|--------------|-----------------|---------------------|-------------|-------------------|
| TPI0705-100M | 10              | 1K                  | 0.070       | 1.650             |
| TPI0705-120M | 12              | 1K                  | 0.070       | 1.570             |
| TPI0705-150M | 15              | 1K                  | 0.080       | 1.390             |
| TPI0705-180M | 18              | 1K                  | 0.100       | 1.290             |
| TPI0705-220M | 22              | 1K                  | 0.130       | 1.120             |
| TPI0705-270M | 27              | 1K                  | 0.160       | 1.060             |
| TPI0705-330M | 33              | 1K                  | 0.180       | 0.970             |
| TPI0705-390M | 39              | 1K                  | 0.180       | 0.910             |
| TPI0705-470M | 47              | 1K                  | 0.270       | 0.800             |
| TPI0705-560M | 56              | 1K                  | 0.290       | 0.760             |
| TPI0705-680M | 68              | 1K                  | 0.330       | 0.680             |
| TPI0705-820M | 82              | 1K                  | 0.430       | 0.620             |
| TPI0705-101M | 100             | 100K                | 0.490       | 0.550             |
| TPI0705-121M | 120             | 100K                | 0.680       | 0.490             |
| TPI0705-151M | 150             | 100K                | 0.940       | 0.440             |
| TPI0705-181M | 180             | 100K                | 1.000       | 0.400             |
| TPI0705-221M | 220             | 100K                | 1.180       | 0.360             |
| TPI0705-271M | 270             | 100K                | 1.300       | 0.330             |

### TPI 1005

| Part Number  | Inductance (μH) | Test Frequency (Hz) | DCR (Ω) Max | Rated Current (A) |
|--------------|-----------------|---------------------|-------------|-------------------|
| TPI1005-100M | 10              | 1K                  | 0.060       | 2.060             |
| TPI1005-120M | 12              | 1K                  | 0.070       | 1.940             |
| TPI1005-150M | 15              | 1K                  | 0.070       | 1.720             |
| TPI1005-180M | 18              | 1K                  | 0.080       | 1.580             |
| TPI1005-220M | 22              | 1K                  | 0.080       | 1.420             |
| TPI1005-270M | 27              | 1K                  | 0.100       | 1.320             |
| TPI1005-330M | 33              | 1K                  | 0.110       | 1.160             |
| TPI1005-390M | 39              | 1K                  | 0.120       | 1.100             |
| TPI1005-470M | 47              | 1K                  | 0.140       | 1.000             |
| TPI1005-560M | 56              | 1K                  | 0.190       | 0.930             |
| TPI1005-680M | 68              | 1K                  | 0.210       | 0.850             |
| TPI1005-820M | 82              | 1K                  | 0.280       | 0.790             |
| TPI1005-101M | 100             | 100K                | 0.340       | 0.720             |
| TPI1005-121M | 120             | 100K                | 0.370       | 0.630             |
| TPI1005-151M | 150             | 100K                | 0.510       | 0.550             |
| TPI1005-181M | 180             | 100K                | 0.570       | 0.500             |
| TPI1005-221M | 220             | 100K                | 0.780       | 0.470             |
| TPI1005-271M | 270             | 100K                | 0.870       | 0.410             |
| TPI1005-331M | 330             | 100K                | 1.200       | 0.370             |
| TPI1005-391M | 390             | 100K                | 1.340       | 0.350             |
| TPI1005-471M | 470             | 100K                | 1.500       | 0.330             |