

# Toroidal choke coils TRB Series



## FEATURES:

- 0.3A to 10A ratings
- 0.7mH to 100mH dual chokes
- Excellent Mechanical Strength
- 100KHz to 3MHz common mode resonance
- High Reliability and variant PCB-mount housing
- Low resistance and temperature rise

## OPTIONS:

- Bulk packaging is standard
- Custom design available

## COMMON APPLICATIONS:

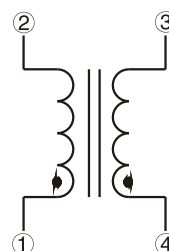
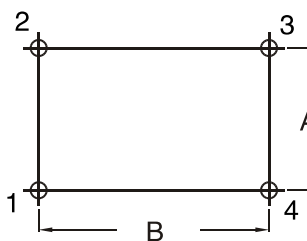
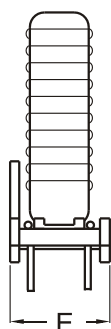
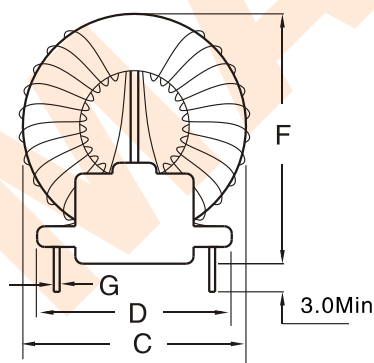
- DC/DC, AC/DC line noise suppression
- Communication System
- Automotive Systems
- LCD/PDPTelevisions
- Computer Peripheral Equipment It accord with the standards of FCC VCCI CISPR FTZ, etc, eliminating of electromagnetic noise of power and signal circuit.

## ELECTRICAL CHARACTERISTICS:

| Part Number  | Inductance (mH Min.) | RATED RMS Current Amps | DCR each winding (Ohms Max) | Leakage (μ H) Type |
|--------------|----------------------|------------------------|-----------------------------|--------------------|
| TRB3518-163Y | 16.0                 | 1.5                    | 0.320                       | 180                |
| TRB3518-103Y | 10.0                 | 2.2                    | 0.240                       | 130                |
| TRB3518-802Y | 8.0                  | 2.5                    | 0.120                       | 90                 |
| TRB3518-402Y | 4.0                  | 3.5                    | 0.040                       | 45                 |
| TRB3518-302Y | 3.0                  | 6.0                    | 0.030                       | 35                 |
| TRB3518-202Y | 2.0                  | 9.0                    | 0.020                       | 25                 |
| TRB3518-102Y | 1.0                  | 15.0                   | 0.010                       | 12                 |
| TRB3622-163Y | 16.0                 | 2.2                    | 0.40                        | 180                |
| TRB3622-103Y | 10.0                 | 3.0                    | 0.35                        | 130                |
| TRB3622-802Y | 8.0                  | 3.5                    | 0.143                       | 85                 |
| TRB3622-402Y | 4.0                  | 5.4                    | 0.105                       | 45                 |
| TRB3622-302Y | 3.0                  | 6.5                    | 0.054                       | 35                 |
| TRB3622-202Y | 2.0                  | 8.7                    | 0.020                       | 25                 |
| TRB3622-122Y | 1.2                  | 15                     | 0.010                       | 12                 |

| Part Number  | Inductance (mH Min.) | RATED RMS Current Amps | DCR each winding (Ohms Max) | Leakage (μ H) Type |
|--------------|----------------------|------------------------|-----------------------------|--------------------|
| TRB4525-563Y | 56.0                 | 1.8                    | 1.0                         | 550                |
| TRB4525-333Y | 33.0                 | 2.0                    | 0.730                       | 300                |
| TRB4525-223Y | 22.0                 | 3.2                    | 0.352                       | 280                |
| TRB4525-153Y | 15.0                 | 4.2                    | 0.132                       | 150                |
| TRB4525-123Y | 12.0                 | 6.8                    | 0.098                       | 95                 |
| TRB4525-502Y | 5.0                  | 12                     | 0.035                       | 50                 |
| TRB4525-302Y | 3.0                  | 15                     | 0.009                       | 20                 |
| TRB5230-124Y | 120.0                | 1.5                    | 1.15                        | 900                |
| TRB5230-723Y | 72.0                 | 2.6                    | 0.50                        | 600                |
| TRB5230-333Y | 33.0                 | 4.2                    | 0.124                       | 450                |
| TRB5230-223Y | 22.0                 | 6.0                    | 0.117                       | 180                |
| TRB5230-153Y | 15.0                 | 9.0                    | 0.060                       | 180                |
| TRB5230-103Y | 10.0                 | 15                     | 0.033                       | 120                |
| TRB5230-602Y | 6.0                  | 18                     | 0.028                       | 100                |

## TECHNICAL INFORMATION & PHYSICAL CHARACTERISTICS:



DIMENSIONS IN:mm

- Inductance tolerance in +50% -30%
  - Max operating voltage:250V at 40°C
  - IDC Max: rating AC/DC current A @40°C
  - Hi-Pot 2500Vac winding to winding 3S.
  - Inductance Testing: 10KHz 0.1V HP4284A
  - RDC:QuadTech 1880 Milliohmeter
  - Surge current Max 10ms: 20X IDC
  - Operating temperature: -40°C to +105°C
  - Storage Temperature: -40°C to +105°C
  - Resistance to soldering heat:260°C for 10 seconds
  - Marking: Part number and date code
- Note:All specifications subject to change without notice.

| Part number | A     | B     | C     | D     | E     | F     | G   |
|-------------|-------|-------|-------|-------|-------|-------|-----|
| TRB3518     | 10.16 | 20.32 | 34.3  | 25.4  | 17.78 | 31.52 | 1.2 |
| TRB3622     | 15.24 | 22.86 | 36.83 | 27.94 | 22.86 | 33.5  | 1.2 |
| TRB4525     | 17.78 | 30.48 | 44.45 | 35.56 | 25.4  | 44.7  | 1.2 |
| TRB5230     | 22.86 | 38.1  | 52.07 | 43.18 | 30.48 | 58.0  | 1.2 |