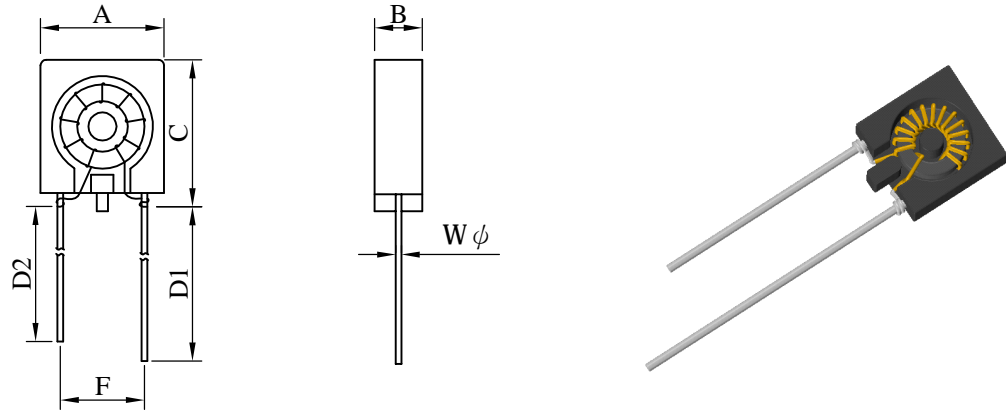


SPECIFICATION FOR APPROVAL

REF. :

| | | | | | |
|---------------|-------------|---------------|------------------|------|---|
| PROD. NAME | Filter Coil | ABC'S DWG NO. | TB0703□□□□L□-□□□ | | |
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I . Configuration and dimensions :



Unit : m/m

| A | B | C | D1 | D2 | F | W φ |
|-----------|-----------|-----------|-----------|-----------|-----------|------------|
| 7.50 max. | 3.20 max. | 9.00 max. | 20.0 ±1.0 | 15.0 ±1.0 | 5.00 ±0.3 | 0.60 ±0.05 |

II . Description :

- a . Ferrite toroidal core construction.
- b . Enamelled copper wire : F class
- c . Product weight : 3.70g (ref.)
- d . Moisture sensitivity Level 1
- e . Products comply with RoHS' requirements
- f . Halogen free available

III . General specification :

- a . Storage temp. : -40°C ---- +105°C
- b . Operating temp. : -40°C ---- +105°C
(Temp. rise included.)

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SPECIFICATION FOR APPROVAL

REF. :

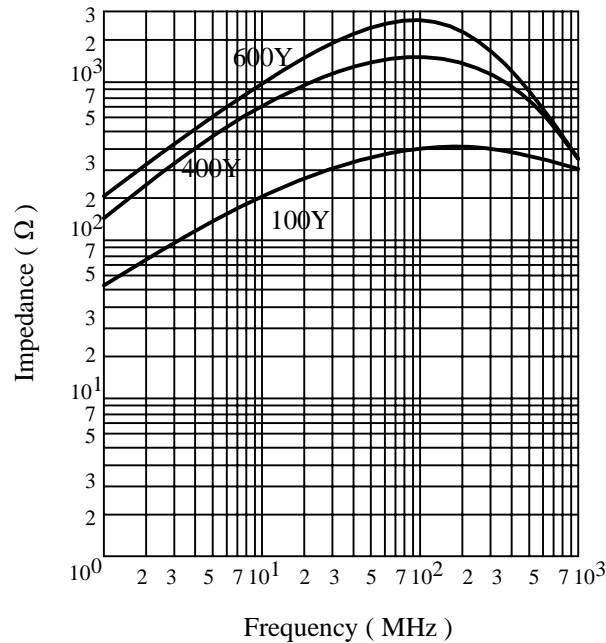
| | | | | | |
|------------|-------------|---------------|------------------|------|---|
| PROD. NAME | Filter Coil | ABC'S DWG NO. | TB0703□□□□L□-□□□ | | |
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IV . Electrical characteristics :

| DWG No. | Rated Voltage (V) | Rated Current (mA) | Inductance (μ H) | DC Resistance (m Ω) max. | Insulation Voltage (Line to case) (VDC) | Insulation resistance (Line to case) (M Ω) min. |
|------------------|---------------------|----------------------|------------------------|-----------------------------------|---|--|
| TB0703100YL□-□□□ | 50 | 700 | 10.0 \pm 50% | 20 | 200 | 10 |
| TB0703400YL□-□□□ | 50 | 600 | 40.0 \pm 50% | 34 | 200 | 10 |
| TB0703600YL□-□□□ | 50 | 500 | 60.0 \pm 50% | 50 | 200 | 10 |

- 1). Electrical specifications at 25°C
- 2). Temp. rise : 20°C max. at rated current
- 3). Inductance test condition : LCR meter HP4261A @ 1KHz , 1.0V

V . Curve :



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SPECIFICATION FOR APPROVAL

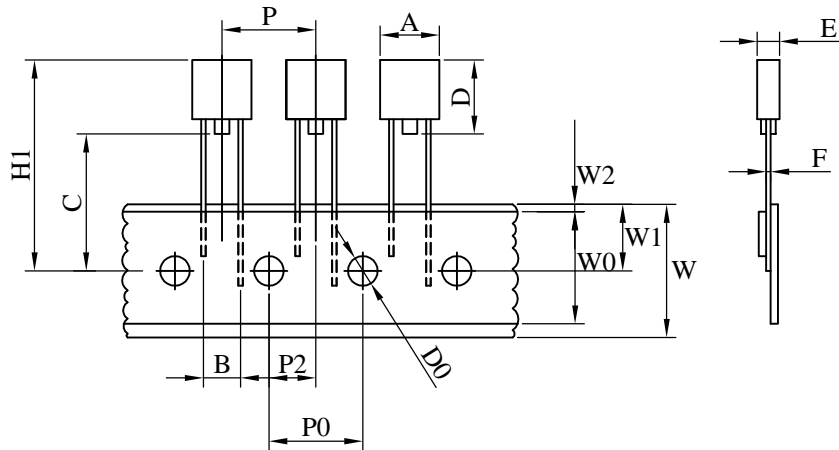
REF. :

| | | | | | |
|------------|-------------|---------------|------------------|------|---|
| PROD. NAME | Filter Coil | ABC'S DWG NO. | TB0703□□□□L□-□□□ | | |
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VI . Packaging information for TB vertical taping in Box

(Packaging Code : B)

(1) Configuration



(2) Dimension

Unit:m/m

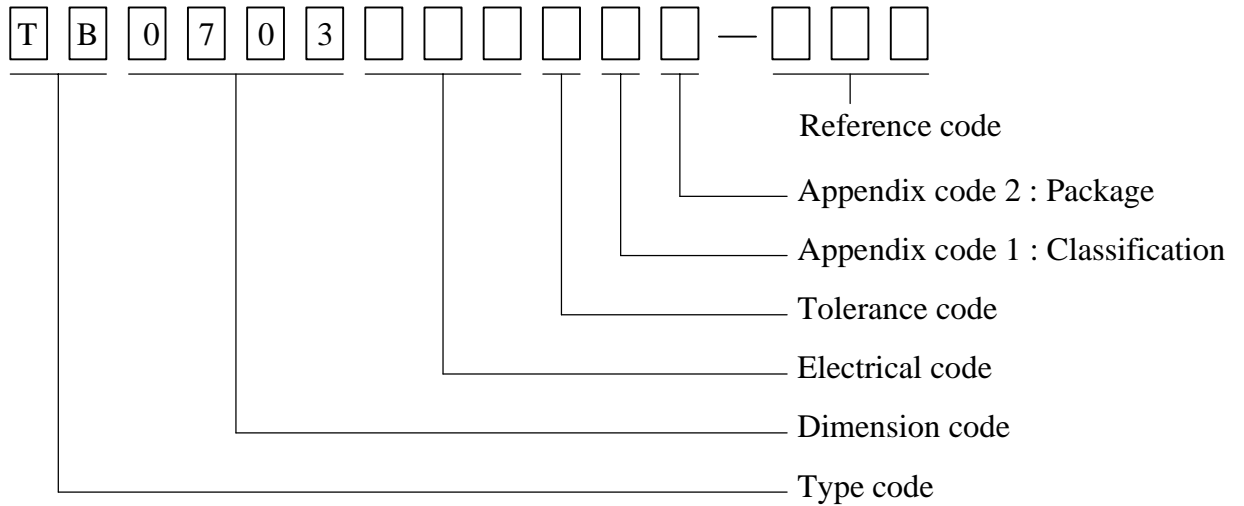
| Item | Specification | Item | Specification |
|------|---------------|------|--------------------------------------|
| A | 8.0 max. | P | 12.7 ± 1.0 |
| B | 5.0 ± 0.5 | D0 | 4.0 ± 0.2 |
| C | 18.5 ± 0.5 | P0 | 12.7 ± 0.3 |
| D | 9.0 ± 0.5 | P2 | 6.35 ± 0.4 |
| E | 3.0 ± 0.5 | W | 18.0 ^{+1.0} _{-0.5} |
| F | 0.6 φ | W0 | 11.0 min. |
| H1 | 28.5 max. | W1 | 9.0 ± 0.5 |
| | | W2 | 0.5 ref. |

SPECIFICATION FOR APPROVAL

REF. :

| | | | | | |
|------------|-------------|---------------|------------------|------|---|
| PROD. NAME | Filter Coil | ABC'S DWG NO. | TB0703□□□□L□-□□□ | | |
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VII . Dwging number expression :



Appendix code 1 : Product Classification

L : Lead Free Standard products comply with RoHS' requirements

Appendix code 2 : Package Information

| Code | Inner package | Inner package Q'TY | Remark |
|------|---------------|--------------------|--------|
| A | Box | 500 pcs | |
| B | T / B (Box) | 2,000 pcs | |

SPECIFICATION FOR APPROVAL

REF. :

| | | | | | |
|------------|-------------|---------------|------------------|------|---|
| PROD. NAME | Filter Coil | ABC'S DWG NO. | TB0703□□□□L□-□□□ | | |
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VIII . Reliability test :

| Item | Reference documents | Test Condition | Test Specification |
|-------------------------------------|-------------------------|---|--|
| 1.High Temperature Exposure | MIL-STD-202 Method 108 | 1.Temperature: 105°C 2.Time:96 hours. | 1.No mechanical and electrical damage. 2.Inductance shall not change more than ±30%. |
| 2.Temperature Cycling | JESD22 Method JA-104 | 1.Temperature: -40°C ~ 105°C 2.Number of cycle:96 cycle 3.Dwell time:30 minutes | 1.No mechanical and electrical damage. 2.Inductance shall not change more than ±30%. |
| 3.Biased Humidity Test | MIL-STD-202 Method 103 | 1.Temperature: 85±5 °C 2.Time:96 Hours 3.Humidity: 85±5% RH. | 1.No mechanical and electrical damage. 2.Inductance shall not change more than ±30%. |
| 4.Operational Life | MIL-PRF-27 | 1.Temperature: 105°C 2.Time:96 hours. 3.Apply rated current. | 1.No mechanical and electrical damage. 2.Inductance shall not change more than ±30%. |
| 5.External Visual | MIL-STD-883 Method 2009 | Inspect product constructions, marking and workmanship. | 1.No pollution on the surface of products. 2.Clear marking. 3.No crack. |
| 6.Physical Dimensions | JESD22 Method JB-100 | Verify physical dimensions to the applicable product detail specification. | Per product specification standard |
| 7.Resistance to solvents | MIL-STD-202 Method 215 | Immerse into solvent for 3±0.5 minutes & brush 10 times for 3 cycles. | 1.No body change in apperarence. 2.No marking blurred. 3.Inductance shall not change more than ±30%. |
| 8.Vibration Test | MIL-STD-202 Method 204 | 1.Frequency and Amplitued : 10-2000-10 Hz, 1.5 mm. 2.Direction:X, Y, Z 3.Test duration:2 hours for each direction, 6 hours in total. | 1.No mechanical and electrical damage. 2.Inductance shall not change more than ±30%. |
| 9.Resistance To Soldering Heat Test | MIL-STD-202 Method 210 | 1.Method : Dip 2.Temperature : 260±5°C 3.Time (temp. ≥ 260°C) : 10 second. 4.Number of times : 3 times. | 1.No mechanical and electrical damage. 2.Inductance shall not change more than ±30%. |
| 10.Rated current | MIL-STD-202 Method 330 | Apply rated current for 5 second. | 1.No mechanical and electrical damage. 2.Inductance shall not change more than ±30%. |
| 11.Temperature rise | MIL-PRF-27 | Apply rated current for 10 minutes. | 1.No mechanical and electrical damage. 2.Inductance shall not change more than ±30%. |
| 12.Over load | MIL-PRF-27 | Apply double as rated current for 5 minutes. (It's not application to some special design) | 1.No mechanical and electrical damage. 2.Inductance shall not change more than ±30%. |
| 13.Solderability Test | J-STD-002 | Dip pads in flux then dip in solder pot at 240±5 for 5 seconds. | Teminals area must have 95% min. Solder coverage. |
| 14.Electrical Characteriazation | User Spec. | 1.Operating temperature : -40°C ~105°C 2.Room temperature : 25°C. | 1.No mechanical and electrical damage. 2.Inductance shall not change more than ±30%. |
| 15.Withstanding Voltage Test | MIL-STD-202 Method 201 | 1.DC:500V 2.Time:1minutes | 1.During the test no breakdown. 2.The characteristic is normal after test. |
| 16.Drop | JESD22-B111 | Packaged & Drop down from 1m.In 1 angle Iridges & 2 surfaces orientation. | 1.No case deformation or change in appearance. 2.Inductance shall not change more than ±30%. |
| 17.Terminal Strength Test | JIS-C-6429 | 1.Apply push force to samples mounted on PCB. 2.Force of 1.8 kg for 60±1 seconds. | After test, inductors shall be no mechanical damage. |

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