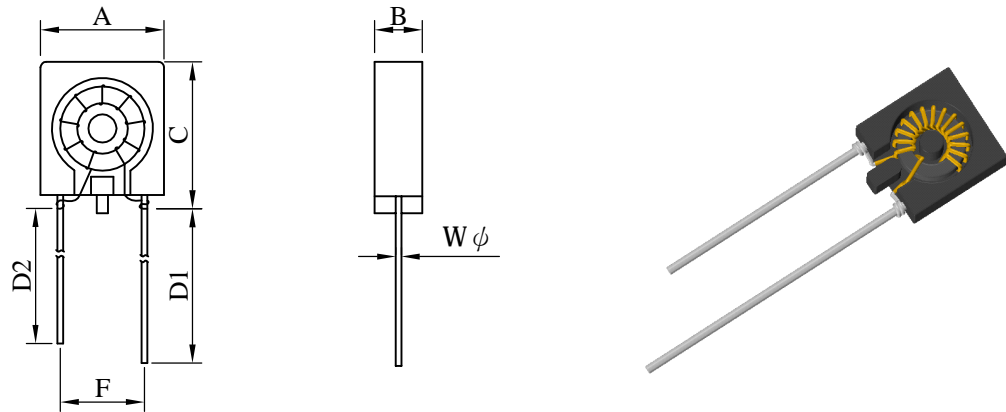


SPECIFICATION FOR APPROVAL

REF. :

PROD. NAME	Filter Coil	ABC'S DWG NO.	TB0703□□□□L□-□□□		
		REV.	20191128-E	PAGE	1

I . Configuration and dimensions :



Unit : mm

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

III . General specification :

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

AR-001C

SPECIFICATION FOR APPROVAL

REF. :

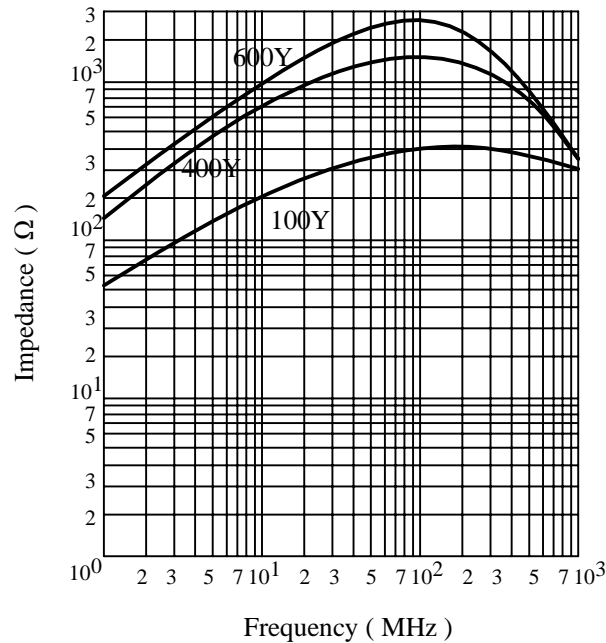
PROD. NAME	Filter Coil	ABC'S DWG NO.	TB0703□□□□L□-□□□		
		REV.	20191128-E	PAGE	2

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 : 1kHz , 1.0V

V . Curve :



AR-001C

SPECIFICATION FOR APPROVAL

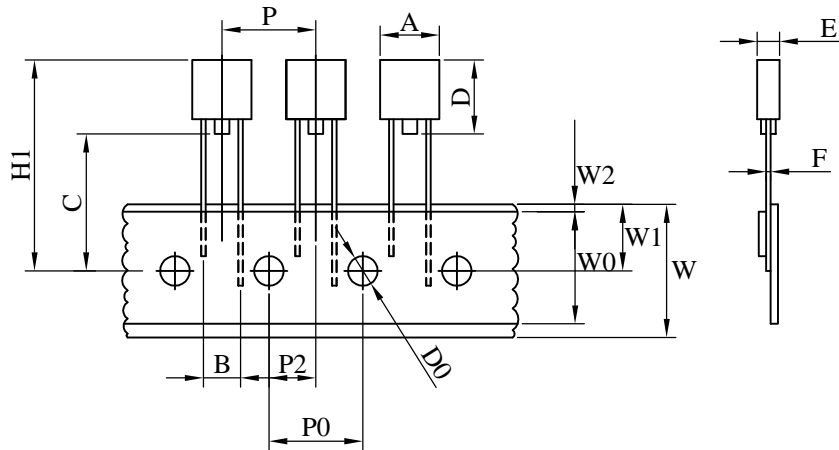
REF. :

PROD. NAME	Filter Coil	ABC'S DWG NO.	TB0703□□□□L□-□□□		
		REV.	20191128-E	PAGE	3

VI . Packaging information for TB vertical taping in Box

(Packaging Code : B)

(1) Configuration



(2) Dimension

Unit:mm

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.

AR-001C

SPECIFICATION FOR APPROVAL

REF. :

PROD. NAME	Filter Coil	ABC'S DWG NO.	TB0703□□□□L□-□□□		
		REV.	20191128-E	PAGE	5

VIII . Reliability test :

Item	Reference documents	Test Condition	Test Specification
1.High Temperature Exposure	MIL-STD-202 Method 108	1.Temperature: 105±2℃ 2.Time:96±2 hours.	1.No mechanical or electrical damage. 2.Inductance shall not change more than ±50%.
2.Temperature Cycling	JESD22-A 104	1.Temperature: -40℃ ~ +105℃ 2.Number of cycle:100 cycle 3.Dwell time:30 minutes	1.No mechanical or electrical damage. 2.Inductance shall not change more than ±50%.
3.Biased Humidity Test	MIL-STD-202 Method 103	1.Temperature : 85±2 ℃ 2.Humidity: 85% RH. 3.Time:96±2 Hours	1.No mechanical or electrical damage. 2.Inductance shall not change more than ±50%.
4.Operational Life	JESD22-A 108	1.Temperature: 105℃ (Temp. rise included) 2.Time:96±2 hours. 3.Rated current	1.No mechanical or electrical damage. 2.Inductance shall not change more than ±50%.
5.External Visual	JESD22-B 101 & 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-B 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 apperance. 2.No marking blurred. 3.Inductance shall not change more than ±50%.
8.Vibration Test	MIL-STD-202 Method 204	1.Frequency and Amplitud : 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 or electrical damage. 2.Inductance shall not change more than ±50%.
9.Resistance To Soldering Heat Test	MIL-STD-202 Method 210	1.Method : Dip 2.Temperature : 260±5℃ 3.Time : 10 seconds. 4.Number of times : 3 times.	1.No mechanical or electrical damage. 2.Inductance shall not change more than ±50%.
10.Over load	JIS C 6436 & User SPEC.	1.Applied one and half rated current for a period of 5 minutes. 2.Rated current	No electrical or mechanical damage
11.Temperature Rise Current	JIS C 6436 & User SPEC.	1.Applied rated current for 10 minutes. 2.Temperature measure by digital surface thermometer. 3.Irms current	Surface temperature rise is less than 20℃ max.
12.Solderability Test	J-STD-002 & JESD22-B 102	1.Baking in pre-testing : 150±5℃ / 16Hours±30 min. 2.Dip pads in flux then dip in solder pot at 240±5℃ for 5 seconds.	More than 95% soldering coverage min on terminations.
13.Electrical Characteriazation	MIL-STD-202 Method 304 & User SPEC.	1.Operating temperature : -40℃~105℃ 2.Room temperature : 25℃.	1.No mechanical or electrical damage. 2.Inductance shall not change more than ±50%.
14.Drop	CNS-C6354 & GB/T 2423.8	1.Products shall be mounted on SPEC. PCB and dropped down from a height of 1m 2.Drop total time : 6 times. (Every side of sample drop 2 times)	1. Adhesion on PCB shall be enough. 2. Product appearance shall not break. 3. No electrical damage.
15.Terminal Strength Test	MIL-STD-202 Method 211	1.Apply pull force to samples of terminals 2.Force of 910g for 60±1 seconds.	After test, inductors shall be no mechanical damage.

AR-001C