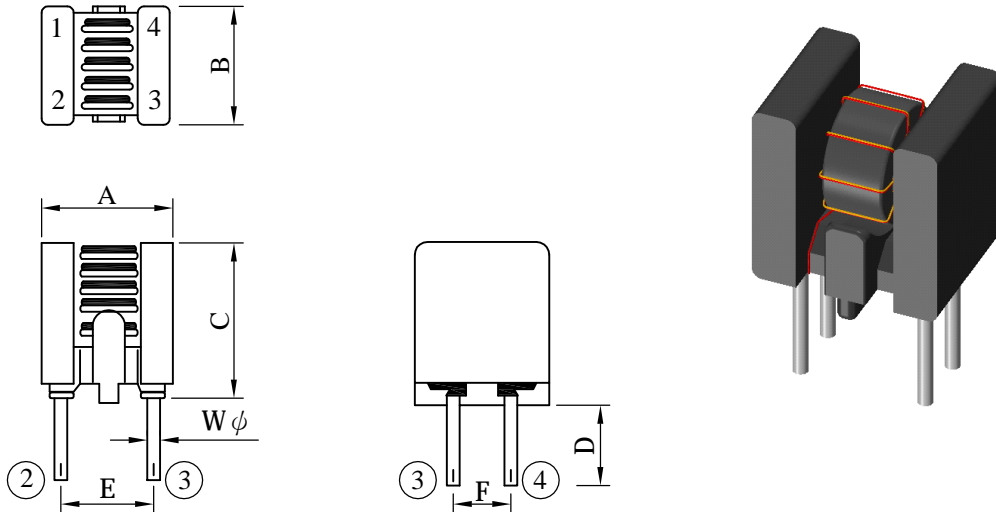


# SPECIFICATION FOR APPROVAL

REF. :

PROD. NAME	Line Filter	ABC'S DWG NO.	TF0808□□□□L□-□□□		
		REV.	20141209-B	PAGE	1

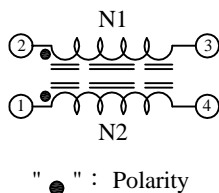
I . Configuration and dimensions :



Unit : m/m

A	B	C	D	E	F	W φ
7.60 max.	6.50 max.	9.00 max.	4.50 ±1.0	5.08 ±0.5	2.54 ±0.3	0.60 ±0.05

II . Schematic diagram :



III . Description :

- a . Ferrite Toroidal core construction.
- b . Enamelled copper wire : F class
- c . Product weight : 0.52g ( ref. )
- d . Moisture sensitivity Level 1
- e . Products comply with RoHS' requirements
- f . Halogen free available

IV . 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. :

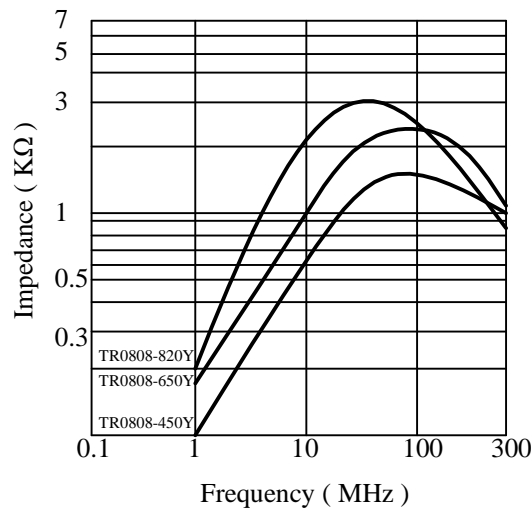
PROD. NAME	Line Filter	ABC'S DWG NO.	TF0808□□□□L□-□□□		
		REV.	20141209-B	PAGE	2

V . Electrical characteristics :

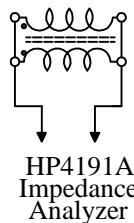
DWG No.	Inductance ( $\mu\text{H}$ ) HP4261A 1V, 1KHz		DC Resistance ( $\text{m}\Omega$ )	Rated Current (mA)	Insulation Resistance ( $\text{M}\Omega / 100\text{VDC}$ )
	L1, L2	L1 - L2			
TF0808450YL□-□□□	45 $\pm$ 35%	4 max.	120 max.	500	10 min.
TF0808650YL□-□□□	65 $\pm$ 35%	5 max.	150 max.	500	10 min.
TF0808820YL□-□□□	82 $\pm$ 35%	6 max.	180 max.	500	10 min.

- 1). Electrical specifications at 25°C
- 2). Inductance test condition : LCR meter HP-4261A @ 1KHz / 1.0V
- 3). HI-POT test ( N1-N2 ) : 700Vac / 60Hz , 3mA , 1sec.
- 4). Rated current : 500mA for temp. rise : 20°C max.
- 5). Isulation resistance : 10M $\Omega$  min. @ 100Vdc

VI . Curve :



@Measuring circuit :





# SPECIFICATION FOR APPROVAL

REF. :

PROD. NAME	Line Filter	ABC'S DWG NO.	TF0808□□□□L□-□□□		
		REV.	20141209-B	PAGE	4

## VIII . Reliability test :

Item	Reference documents	Test Condition	Test Specification
1.High Temperature Exposure	MIL-STD-202 Method 108	1.Temperature: 105℃ 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℃ ~ 105℃ 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 ℃ 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℃ 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℃ 3.Time ( temp. ≥ 260℃ ) : 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℃ ~105℃ 2.Room temperature : 25℃.	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.

AR-001C