SPECIFICATION FOR APPROVAL

REF. :

PROD. NAME	Line Filter	ABC'S DWG NO.	UF09□□□□□□L□-□□□		
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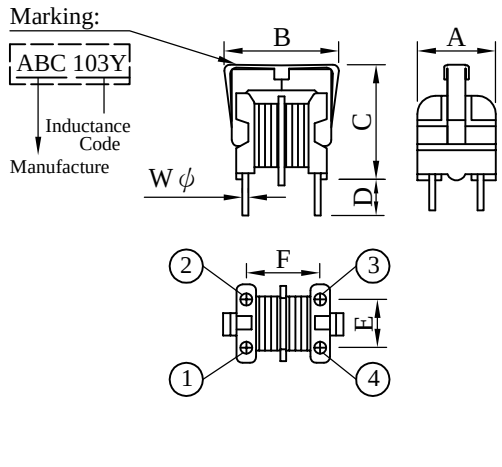
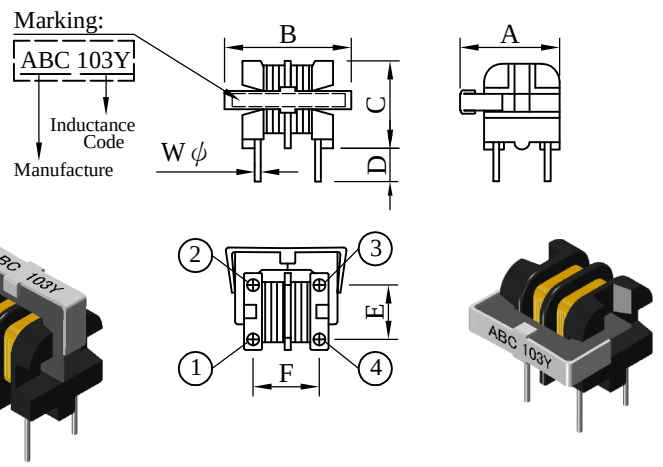
Ⅰ．Configuration and dimensions：

●UF09V2 Series



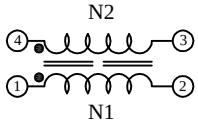
●UF09H2 Series



Unit：m/m

Series	A	B	C	D	E	F	Wφ
UF09V2	11.5 max.	16.5 max.	17.0 max.	5.0 ±1.0	7.0 ±0.5	8.0 ±0.5	0.6 ±0.05
UF09H2	15.0 max.	16.5 max.	13.0 max.	5.0 ±1.0	7.0 ±0.5	8.0 ±0.5	0.6 ±0.05

Ⅱ．Schematic diagram：



" ● "： Polarity

Ⅲ．Description：

a．Ferrite UU core construction.

b．Enamelled copper wire：F class

c．Product weight：3.4 g（ref.）

d．Moisture sensitivity Level 1

e．Products comply with RoHS' requirements

f．Halogen free available

Ⅳ．General specification：

a．Storage temp.：-40℃ ----+105℃

b．Operating temp.：-25℃----+85℃

（Temp. rise included）

c．Pin strength：1.0KG min.

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Ⅴ . Electrical characteristics：

DWG No.	Inductance (mH) min.	RDC (Ω) max.	Rated Current (Aac)
UF09V2/ UF09H2501YL□-□□□	0.5	0.2	1.4
UF09V2/ UF09H2102YL□-□□□	1.0	0.4	1.0
UF09V2/ UF09H2202YL□-□□□	2.0	0.8	0.7
UF09V2/ UF09H2502YL□-□□□	5.0	1.6	0.5
UF09V2/ UF09H2802YL□-□□□	8.0	2.5	0.4
UF09V2/ UF09H2103YL□-□□□	10.0	3.6	0.3

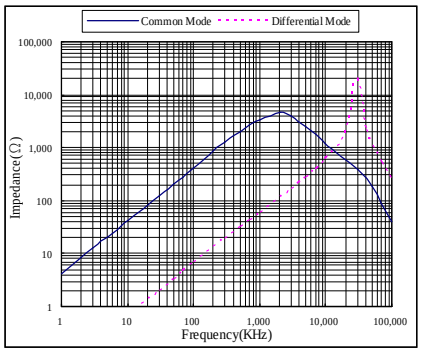
1). Electrical specifications at 25℃

2). Rated current：Base on temp. rise at 40℃ max.

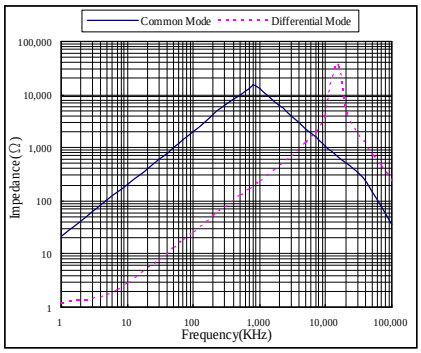
3). HiPot Test：AC 1.5KV / 60Hz / 3mA / 3 Sec

Ⅵ . Curve：

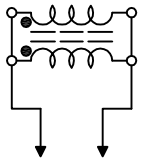
UF09V2/ UF09H2501YL□



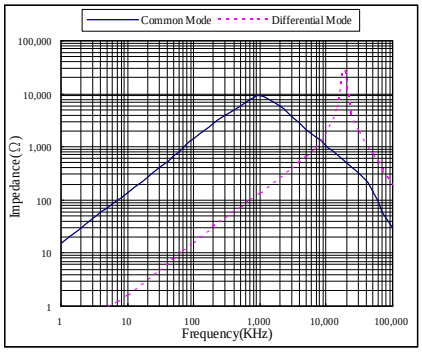
UF09V2/ UF09H2202YL□



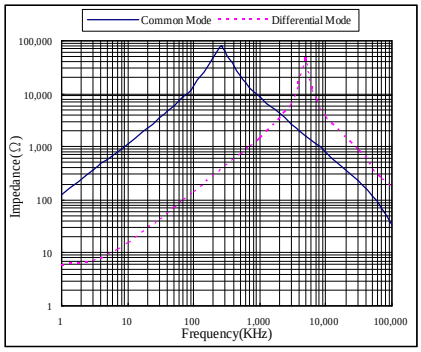
Common Mode
Measuring circuit :



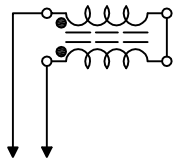
UF09V2/ UF09H2102YL□



UF09V2/ UF09H2103YL□



Differential Mode
Measuring circuit :



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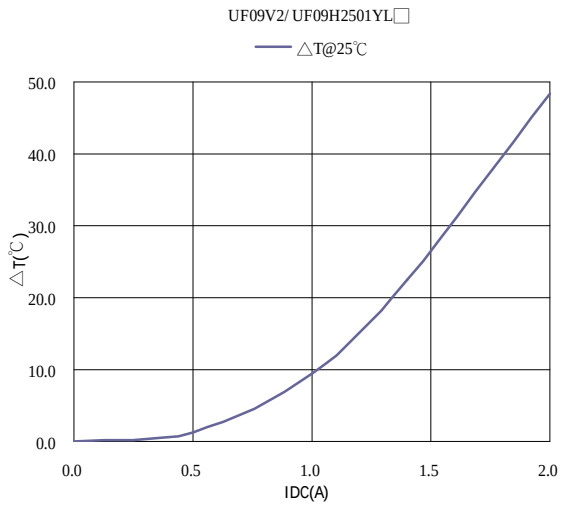

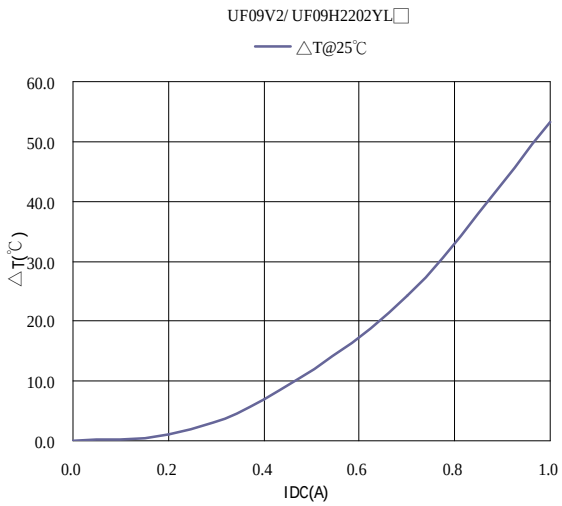

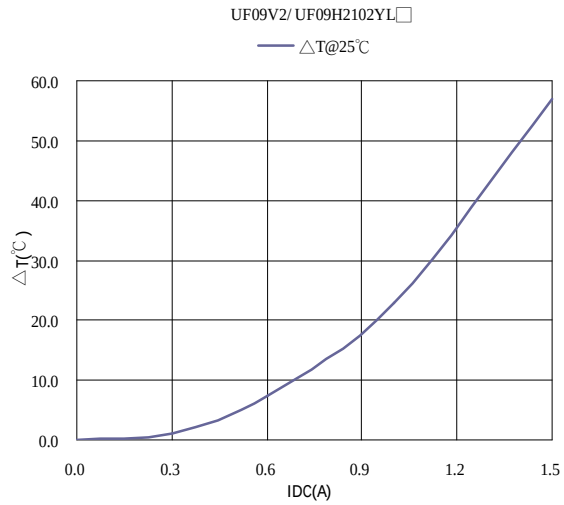

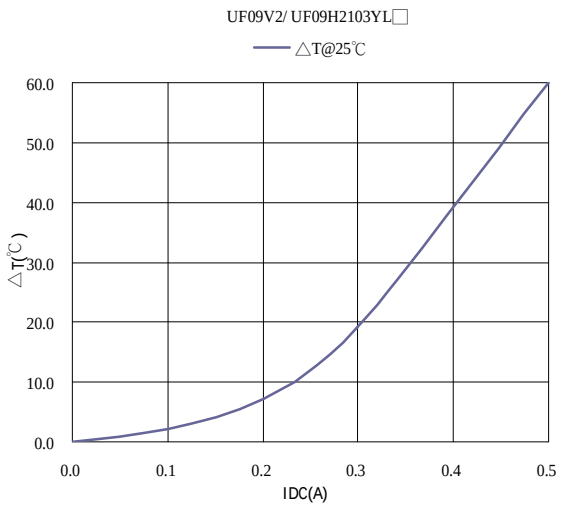

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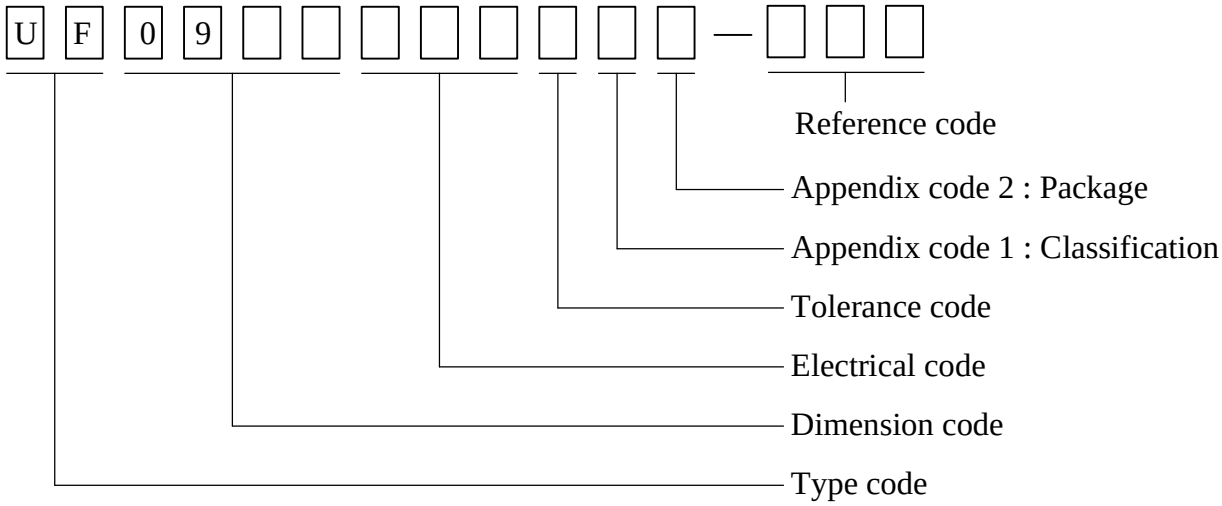
Ⅶ．Dwing number expression：



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	Tray	108 pcs	UF09V2
	Tray	48 pcs	UF09H2

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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±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: 85℃ (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 apperarance. 2.No marking blurred. 3.Inductance shall not change more than ±50%.
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 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 second. 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 40℃ 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 5senconds.	More than 95% soldering coverage min on terminations.
13.Electrical Characteriazation	MIL-STD-202 Method 304 & User SPEC.	1.Operating temperature：-25℃~85℃ 2.Room temperature：25℃.	1.No mechanical or electrical damage. 2.Inductance shall not change more than ±50%.
14.Withstanding Voltage Test	MIL-STD-202 Method 301 & User SPEC.	1.AC: 1.5 KV (Winding to Winding) 2.Time：3 Sec.	1.During the test no breakdown. 2.No mechanical or electrical damage.
15.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 time (Every side of sample drop 2 time)	1. Adhesion on PCB shall be enough. 2. Product appearance shall not break. 3. No electrical damage.
16.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.