SPECIFICATION FOR APPROVAL

REF. :

PROD. NAME	Line Filter	ABC'S DWG NO.	UF15□□□□□□L□-□□□		
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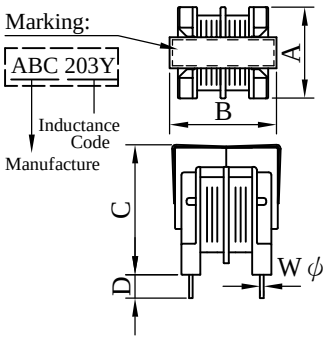
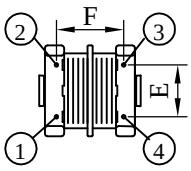
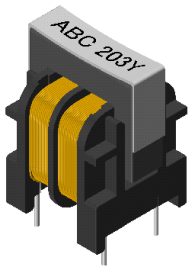
Ⅰ．Configuration and dimensions：

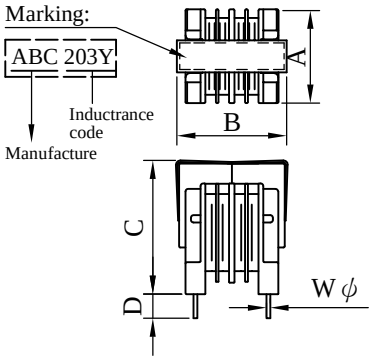
●UF15V2 Series

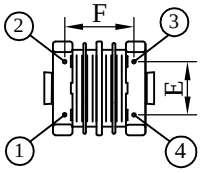


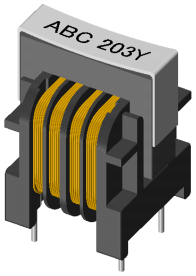




●UF15V4 Series



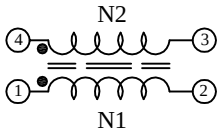




Unit：m/m

Series	A	B	C	D	E	F	W φ
UF15V2 UF15V4	19.0 max.	23.0 max.	27.5 max.	4.50 ±1.0	10.0±0.5	13.0 ±0.5	0.70

Ⅱ．Schematic diagram：



" ● "： Polarity

Ⅲ．Description：

a．Ferrite UU core construction.

b．Enamelled copper wire：F class

c．Product weight： 16.5g（ref.）

d．Moisture sensitivity Level 1

e．Products comply with RoHS' requirements

f．Halogen free available

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Ⅳ．General specification：

a．Storage temp.：-40℃ ～ +105℃

b．Operating temp.：-25℃ ～ +85℃

(Temp. rise included.)

c．Pin strength：1.0KG min.

Ⅴ．Electrical characteristics：

DWG No.	L (mH) min.	RDC (Ω) max.	Rated Current (Aac)
UF15V2203YL□-□□□	20.0	2.00	0.5
UF15V2103YL□-□□□	10.0	1.00	0.7
UF15V2602YL□-□□□	6.0	0.50	0.8
UF15V2402YL□-□□□	4.0	0.30	1.2
UF15V2252YL□-□□□	2.5	0.20	1.6
UF15V2152YL□-□□□	1.5	0.15	1.8

1). Electrical specifications at 25℃

2). Temp. rise：40℃ max. at rated current

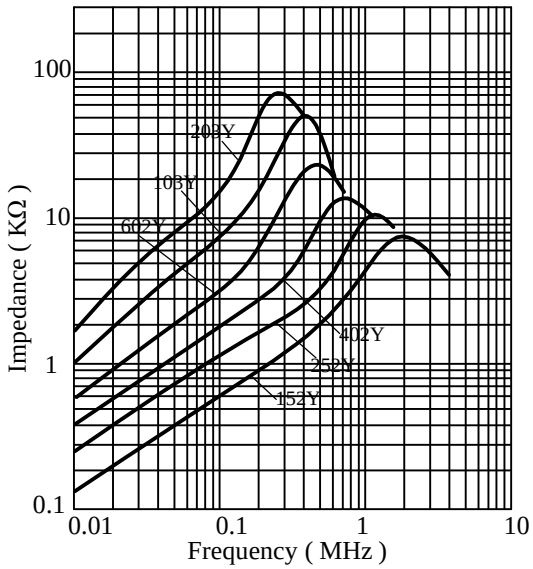
DWG No.	L (mH) min.	RDC (Ω) max.	Rated Current (Aac)
UF15V4203YL□-□□□	20.0	2.00	0.5
UF15V4103YL□-□□□	10.0	1.00	0.7
UF15V4602YL□-□□□	6.0	0.50	0.8
UF15V4402YL□-□□□	4.0	0.30	1.2
UF15V4252YL□-□□□	2.5	0.20	1.6
UF15V4152YL□-□□□	1.5	0.15	1.8

1). Electrical specifications at 25℃

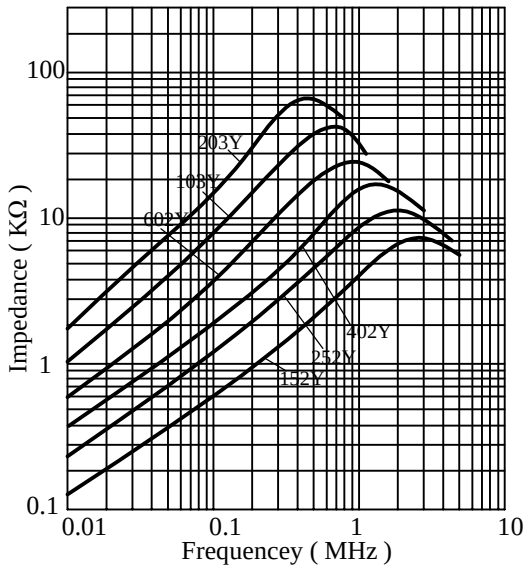
2). Temp. rise：40℃ max. at rated current

Ⅵ．Curve：

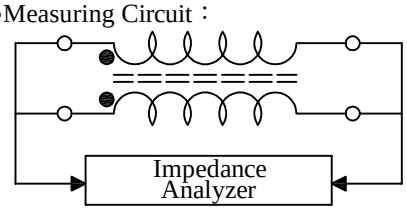
●UF15V2 Series



●UF15V4 Series



●Measuring Circuit：



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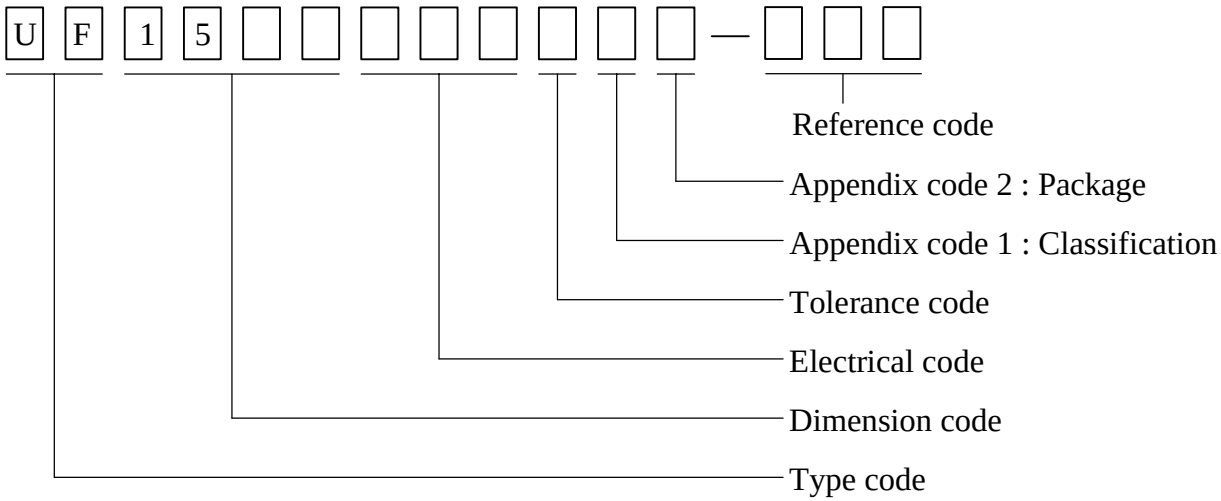
Ⅶ．Dwging number expression：



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	Tray	30 pcs	

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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.Time:96 hours.	1.No mechanical and electrical damage. 2.Inductance shall not change more than ±50%.
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 ±50%.
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 ±50%.
4.Operational Life	MIL-PRF-27	1.Temperature: 85℃ 2.Time:96 hours. 3.Apply rated current.	1.No mechanical and electrical damage. 2.Inductance shall not change more than ±50%.
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 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 and 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（temp.≧ 260℃）：10 second. 4.Number of times：3 times.	1.No mechanical and electrical damage. 2.Inductance shall not change more than ±50%.
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 ±50%.
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 ±50%.
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 ±50%.
13.Solderability Test	J-STD-002	Dip pads in flux then dip in solder pot at 240±5 for 5 senconds.	Teminals area must have 95% min. Solder coverage.
14.Electrical Characteriazation	User Spec.	1.Operating temperature：-25℃~85℃ 2.Room temperature：25℃.	1.No mechanical and electrical damage. 2.Inductance shall not change more than ±50%.
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 1ridges & 2 surfaces orientation.	1.No case deformation or change in appearance. 2.Inductance shall not change more than ±50%.
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.