

**⊕ Feature**

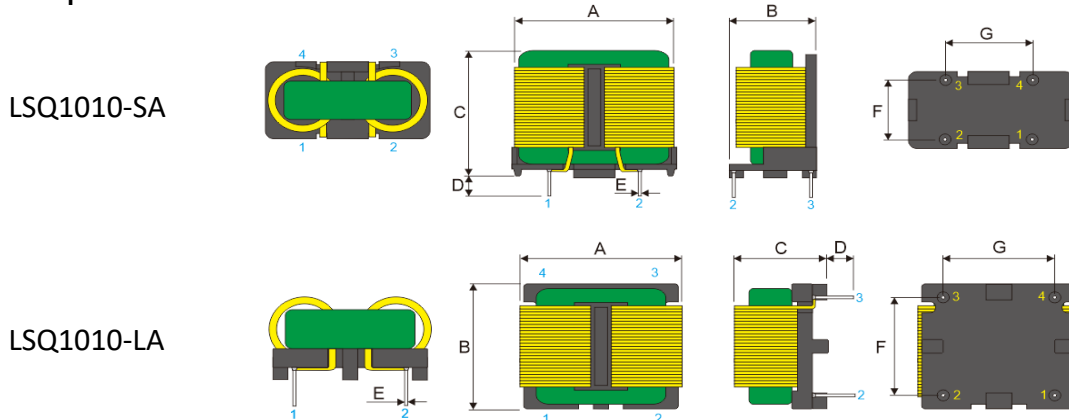
- Low DC resistance, the distribution of capacitance is minimum.
- Closed magnetic circuit, small magnetic leakage, the effect of EMI achieved the expectation.

**⊕ Applications**

- AC/DC adaptors.
- Switching Power Supplies.
- LED lights.
- Monitor and Display Units.

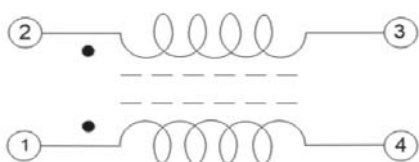
**⊕ Product Identification :**

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1	2	3		4	5		6	
Series name	Dimensions Code		Internal code	Inductance		Tolerance		Tolerance
LSQ	1010B	SQ1010 Case	2R0 = 2A	102	1 mH	N	30%	K70=7000ui
	1010C	SQ1010 Coating	100 = 10A	153	15 mH			T10=10000ui
			SA = Vertical	103	10 mH			T12=12000ui
			LA = Horizontal					

**⊕ Shapes And Dimensions**


Part No.	Dimensions(mm)							
	A (Max)	B (Max)	C (Max)	D (±0.5)	E (±0.1)	F (±0.5)	G (±0.5)	
LSQ1010-SA	14.5	8.5	14.0	3.5	0.6	5.0	8.0	
LSQ1010-LA	14.2	12.0	10.0	3.5	0.7	7.0	8.0	

Part No.	L (mH)	Tolerance	DCR (mΩ)	Rated Current (A)	Wire (mm)	Turns (Ts)	Freq.	Hi-Pot (N1-N2)	Insulation resistance (MΩ)
LSQ1010C1R0SA-153-T12	15	±50%	180 Max	1.0 Max	0.10x0.7	36 Ref	1KHz/0.25V	AC1000V 3 Sec, 1mA, @AC 50Hz	100 @50V <sub>dc</sub> Min
LSQ1010C1R0LA-153-T12	15	±50%	180 Max	1.0 Max	0.10x0.7	36 Ref	1KHz/0.25V		

**⊕ Equivalent Circuit Schematic :**

**⊕ Material List :**

No.	Location	Material
1	Core(Topcore)	MnZn, SQ1010
2	Wire(Ronsen Flat)	SFT-UEWJ UL:E164502
3	Base(Chang Chun)	T375HF, 150°C UL:E59481
4	Adhesive(RONGTAI)	306
5	Solder(Brazing)	Sn99.3 Cu0.7

1.Operating temperature -30°C ~ +105°C

2.Keep Temperature Range -30°C ~ +60°C

**⊕ Feature**

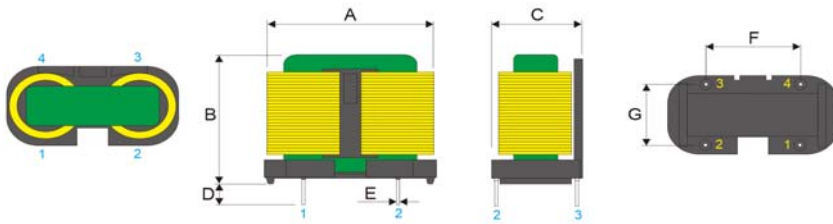
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- LED lights.
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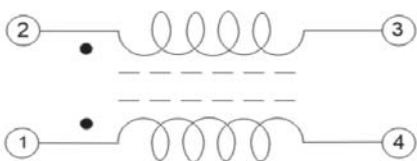
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1	2	3		4	5		6	
Series name	Dimensions Code		Internal code	Inductance		Tolerance		Tolerance
LSQ	1012B	SQ1012 Case	2R0 = 2A	102	1 mH	N	30%	K70=7000ui
	1012C	SQ1012 Coating	100 = 10A	153	15 mH			T10=10000ui
			SA = Vertical LA = Horizontal	103	10 mH			T12=12000ui

**⊕ Shapes And Dimensions**
**LSQ1012-S**


Part No.	Dimensions(mm)							
	A (Max)	B (Max)	C (Max)	D (±0.5)	E (±0.1)	F (±0.5)	G (±0.5)	
LSQ1012-S	15.0	15.5	8.5	3.0	0.7	7.0	5.8	

Part No.	L (mH)	Tolerance	DCR (mΩ)	Rated Current (A)	Wire (mm)	Turns (Ts)	Freq.	Hi-Pot (N1-N2)	Insulation resistance (MΩ)
LSQ1012C1R6S-153-T12	15	Min	150 Max	1.6 Max	0.10x1.0	46 Ref	1KHz/0.3V	AC1000V 3 Sec, 1mA, @AC 50Hz	100 @500V <sub>DC</sub> Min

**⊕ Equivalent Circuit Schematic :**

**⊕ Material List :**

No.	Location	Material
1	Core(Topcore)	MnZn, SQ1012
2	Wire(Ronsen Flat)	SFT-UEWJ UL:E164502
3	Base(Chang Chun)	T375HF, 150°C UL:E59481
4	Adhesive(RONGTAL)	306
5	Solder(Brazing)	Sn99.3 Cu0.7

- 1.Operating temperature -30°C ~ +105°C
- 2.Keep Temperature Range -30°C ~ +60°C

**⊕ Feature**

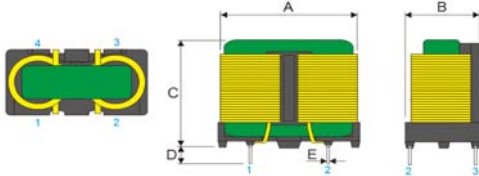
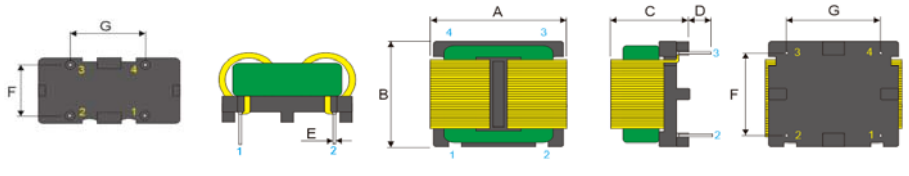
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**⊕ Applications**

- AC/DC adaptors.
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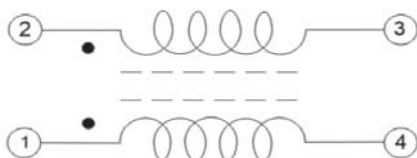
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1	2	3		4	5		6	
Series name	Dimensions Code		Internal code	Inductance		Tolerance		Tolerance
LSQ	1212B	SQ1212 Case	2R0 = 2A	102	1 mH	N	30%	K70=7000ui
	1212C	SQ1212 Coating	100 = 10A	153	15 mH			T10=10000ui
			S = Vertical	103	10 mH			T12=12000ui
			L = Horizontal					

**⊕ Shapes And Dimensions**
**LSQ1212-S**

**LSQ1212-L**


Part No.	Dimensions(mm)									
	A (Max)	B (Max)	C (Max)	D (±0.5)	E (±0.1)	F (±0.5)	G (±0.5)			
LSQ1212-S	18.0	11.0	17.0	3.5	0.7	8.0	11.0			
LSQ1212-L	18.5	14.0	12.0	3.5	0.7	10.0	13.0			

Part No.	L (mH)	Tolerance	DCR (mΩ)	Rated Current (A)	Wire (mm)	Turns (Ts)	Freq.	Hi-Pot (N1-N2)	Insulation resistance (MΩ)
LSQ1212C1R0□-203-T12	20	Min	300 Max	1.0 Max	0.10x1.0	54 Ref	1KHz/0.3V	AC1000V 3 Sec, 1mA, @AC 50Hz	100 @500V <sub>DC</sub> Min
LSQ1212C1R0□-253-T12	25	Min	300 Max	1.0 Max	0.10x1.0	54 Ref	1KHz/0.3V		
LSQ1212C1R5□-702-T12	7	Min	200 Max	1.5 Max	0.13x1.0	45 Ref	20KHz/0.1V		
LSQ1212C1R5□-952-T12	9.5	Min	250 Max	1.5 Max	0.13x1.0	48 Ref	1KHz/1V		
LSQ1212C1R5□-103-T12	10	-30%/+50%	180 Max	1.5 Max	0.15x1.0	40 Ref	1KHz/0.25V		
LSQ1212C1R5□-123-T12	12	-30%/+50%	250 Max	1.5 Max	0.13x1.0	46 Ref	1KHz/0.25V		
LSQ1212C2R0□-502-T12	5	Min	100 Max	2.0 Max	0.20x1.0	31 Ref	1KHz/1V		
LSQ1212C2R0□-702-T12	7	±50%	100 Max	2.0 Max	0.20x1.0	31 Ref	1KHz/1V		
LSQ1212C2R5□-362-T12	3.6	Min	65 Max	2.5 Max	0.20x1.0	31 Ref	1KHz/0.3V		

**⊕ Equivalent Circuit Schematic :**

**⊕ Material List :**

No.	Location	Material
1	Core(Topcore)	MnZn, SQ1212
2	Wire(Ronsen Flat)	SFT-UWJ UL:E164502
3	Base(Chang Chun)	T375HF, 150°C UL:E59481
4	Adhesive(RONGTAI)	306
5	Solder(Brazing)	Sn99.3 Cu0.7

1. Operating temperature -30°C ~ +105°C

2. Keep Temperature Range -30°C ~ +60°C

**⊕ Feature**

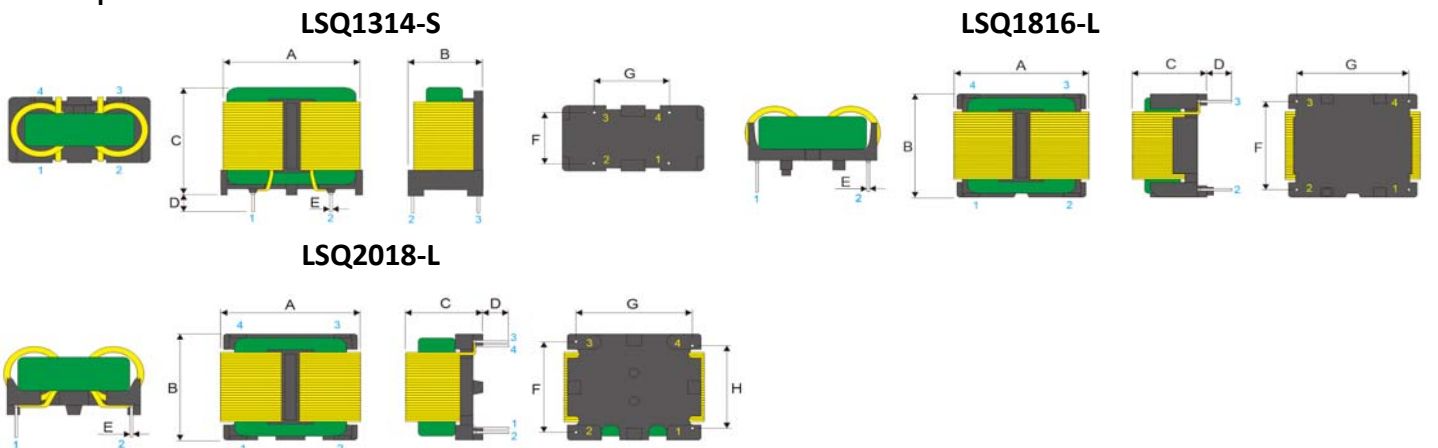
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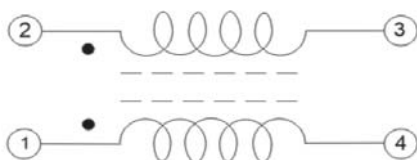
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1	2	3		4	5		6	
Series name	Dimensions Code		Internal code	Inductance		Tolerance		Tolerance
LSQ	1314B	SQ1314 Case	2R0 = 2A	102	1 mH	N	30%	K70=7000ui
	1314C	SQ1314 Coating	100 = 10A	153	15 mH			T10=10000ui
			S = Vertical	103	10 mH	T12=12000ui		
			L = Horizontal					

**⊕ Shapes And Dimensions**


Part No.	Dimensions(mm)								
	A (Max)	B (Max)	C (Max)	D (±0.5)	E (±0.1)	F (±0.5)	G (±0.5)	H (±0.5)	
LSQ1314-S	18.0	12.0	18.2	3.5	0.6	7.0	7.0		
LSQ1816-L	22.5	19.5	14.5	3.5	0.7	17.5	15.0	2.0	
LSQ2018-L	24.5	23.5	13.5	3.5	0.6	15.0	18.0	17.0	

Part No.	L (mH)	Tolerance	DCR (mΩ)	Rated Current (A)	Wire (mm)	Turns (Ts)	Freq.	Hi-Pot (N1-N2)	Insulation resistance (MΩ)
LSQ1314C2R4S-632N-T10	6.3	±30%	65 Max	2.4 Max	0.20x1.2	30 Ref	1KHz/0.3V	AC1000V 3 Sec, 1mA, @AC 50Hz	100 @500V <sub>DC</sub> Min
LSQ1816C4R0L-702-T10	7	Min	80 Max	4.0 Max	0.20x1.5	40 Ref	1KHz/0.3V		
LSQ2018C3R0L-173-T10	17	Min	81 Max	3.0 Max	0.25x1.2	46 Ref	1KHz/1V		

**⊕ Equivalent Circuit Schematic :**

**⊕ Material List :**

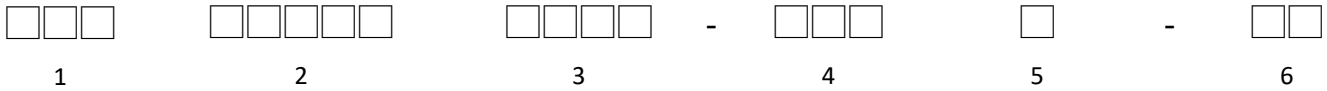
No.	Location	Material
1	Core(Topcore)	MnZn, SQ1314,1816,2018
2	Wire(Ronsen Flat)	SFT-UWJ UL:E164502
3	Base(Chang Chun)	T375HF, 150°C UL:E59481
4	Adhesive(RONGTAI)	306
5	Solder(Brazing)	Sn99.3 Cu0.7

1.Operating temperature -30°C ~ +105°C

2.Keep Temperature Range -30°C ~ +60°C

**⊕ Feature**

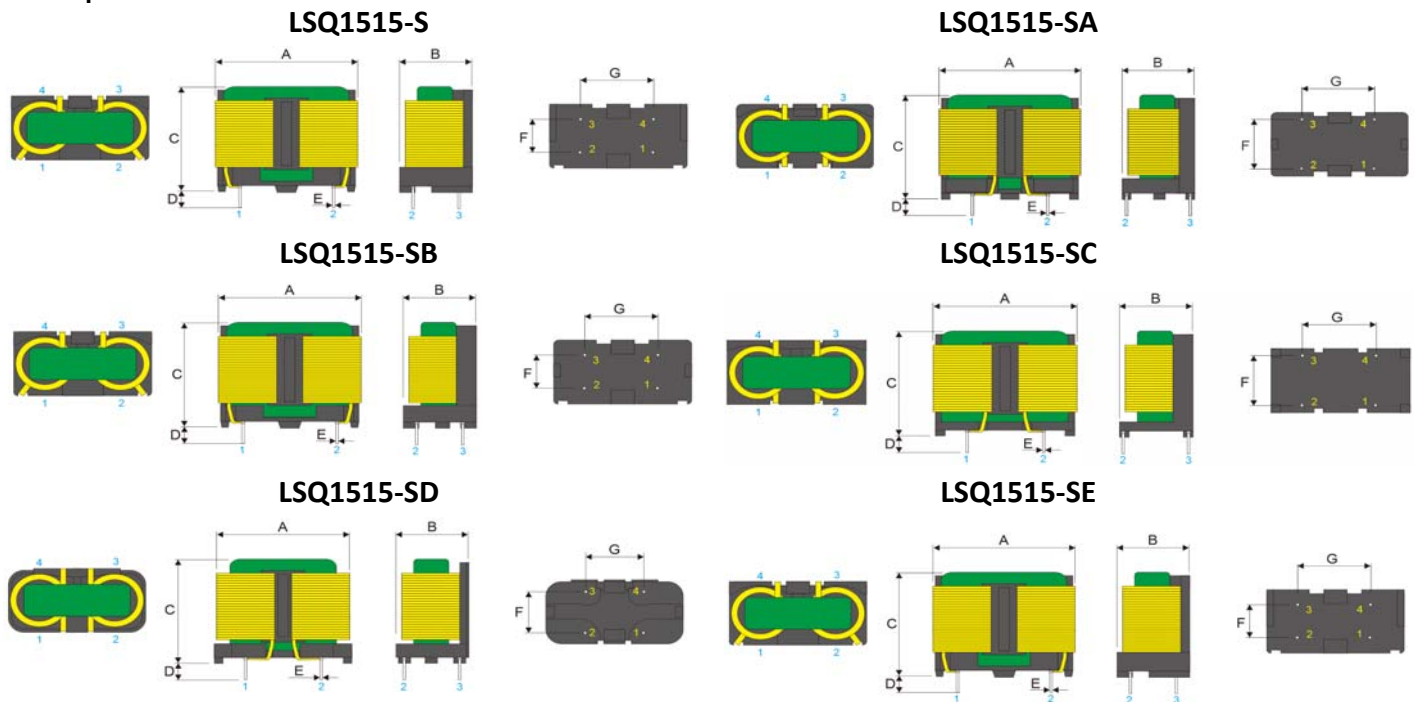
- Low DC resistance, the distribution of capacitance is minimum.
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**⊕ Product Identification :**


Series name	Dimensions Code		Internal code
LSQ	1515B	SQ1515 Case	2R0 = 2A
	1515C	SQ1515 Coating	100 = 10A
			S = Vertical
			L = Horizontal

Inductance		Tolerance	
102	1 mH	N	30%
153	15 mH		
103	10 mH		

Tolerance
K70=7000ui
T10=10000ui
T12=12000ui

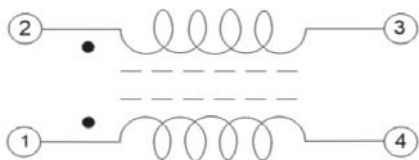
**⊕ Shapes And Dimensions**


Part No.	Dimensions(mm)							
	A (Max)	B (Max)	C (Max)	D (±0.5)	E (±0.1)	F (±0.5)	G (±0.5)	
LSQ1515-S	21.0	14.5	20.5	3.5	0.8	10.0	12.8	
LSQ1515-SA	22.0	14.5	20.5	3.5	0.8	10.0	13.0	
LSQ1515-SB	21.0	15.0	20.0	3.5	0.6	9.0	10.5	
LSQ1515-SC	21.8	14.0	20.8	3.5	0.7	8.0	10.0	
LSQ1515-SD	22.0	13.0	20.8	3.0	0.7	8.0	10.0	
LSQ1515-SE	21.0	13.0	19.0	3.5	0.6	9.0	10.5	

Part No.	L (mH)	Tolerance	DCR (mΩ)	Rated Current (A)	Wire (mm)	Turns (Ts)	Freq.	Hi-Pot (N1-N2)	Insulation resistance (MΩ)
LSQ1515C1R0□-183-T12	18.5	Min	350 Max	1.0 Max	0.10x1.0	68 Ref	1KHz/0.25V		
LSQ1515C1R0□-353-T12	35	Min	380 Max	1.0 Max	0.10x1.0	68 Ref	1KHz/0.3V		
LSQ1515C1R3□-103-T12	10.5	-30%/+50%	180 Max	1.5 Max	0.13x1.0	48 Ref	100KHz/1V		
LSQ1515C1R3□-133-T10	13	Min	260 Max	1.3 Max	0.13x1.0	57 Ref	1KHz/0.3V		
LSQ1515C1R5□-103-T10	10	Min	210 Max	1.5 Max	0.15x1.0	50 Ref	1KHz/0.3V		
LSQ1515C1R5□-103-T10	10	Min	210 Max	1.5 Max	0.15x1.0	50 Ref	20KHz/0.1V		
LSQ1515C1R5□-103-T12	10	Min	210 Max	1.5 Max	0.15x1.0	50 Ref	20KHz/0.1V		
LSQ1515C1R5□-203-T12	20	Min	250 Max	1.5 Max	0.13x1.0	56 Ref	1KHz/0.3V		
LSQ1515C1R5□-253-T12	25	Min	120 Max	1.5 Max	0.13x1.0	56 Ref	1KHz/0.25V		
LSQ1515C1R5□-283-T12	28	Min	250 Max	1.5 Max	0.13x1.0	56 Ref	1KHz/0.3V		
LSQ1515C2R0□-802-T10	8	±50%	110 Max	2.0 Max	0.20x1.0	40 Ref	1KHz/1V		
LSQ1515C2R0□-143-T12	14	-30%/+50%	130 Max	2.0 Max	0.20x1.0	39 Ref	1KHz/1V		
LSQ1515C2R0□-153-T10	15	-30%/+50%	120 Max	2.0 Max	0.20x1.0	39 Ref	1KHz/1V		
LSQ1515C2R0□-153-T12	15	Min	120 Max	2.0 Max	0.20x1.0	39 Ref	1KHz/0.25V		
LSQ1515C2R0□-183-T12	18	Min	130 Max	2.0 Max	0.15x1.5	48 Ref	1KHz/0.25V		
LSQ1515C2R0□-193-T10	18.5	Min	130 Max	2.0 Max	0.20x1.0	39 Ref	1KHz/0.3V		
LSQ1515C2R0□-203-T10	20	Min	130 Max	2.0 Max	0.20x1.0	39 Ref	1KHz/0.3V		
LSQ1515C2R0□-253-T10	25	-30%/+50%	260 Max	2.0 Max	0.15x1.5	50 Ref	1KHz/0.25V		
LSQ1515C2R5□-502-T10	5	-30%/+50%	80 Max	2.5 Max	0.25x1.0	34 Ref	20KHz/0.1V		
LSQ1515C2R5□-103-T12	10	-30%/+50%	130 Max	2.5 Max	0.25x1.0	32 Ref	1KHz/1V		
LSQ1515C3R0□-422-T10	4.2	Min	80 Max	3.0 Max	0.25x1.2	35 Ref	1KHz/1V		
LSQ1515C3R0□-103-T12	10	Min	55 Max	3.0 Max	0.20x1.5	35 Ref	1KHz/0.3V		
LSQ1515C3R0□-153-T12	15	Min	100 Max	3.0 Max	0.20x1.5	40 Ref	1KHz/0.3V		
LSQ1515C4R0□-502-T10	5	±50%	55 Max	4.0 Max	0.30x1.2	30 Ref	100KHz/1V		
LSQ1515C4R0□-502-T12	5	-30%/+50%	55 Max	4.0 Max	0.30x1.2	30 Ref	1KHz/1V		
LSQ1515C4R0□-562-T10	5.6	Min	110 Max	4.0 Max	0.20x1.0	40 Ref	1KHz/1V		
LSQ1515C4R0□-802-T10	8	Min	50 Max	4.0 Max	0.25x1.5	34 Ref	1KHz/0.3V		
LSQ1515C4R5□-402-T12	4	Min	40 Max	4.5 Max	0.30x1.5	28 Ref	1KHz/0.3V		
LSQ1515C5R0□-232-T10	2.3	Min	30 Max	5.0 Max	0.40x1.2	22 Ref	1KHz/1V		
LSQ1515C5R0□-472-T12	4.7	Min	30 Max	5.0 Max	0.35x1.5	25 Ref	1KHz/1V		

AC1000V  
3 Sec,  
1mA,  
@AC 50Hz

100  
@500V<sub>DC</sub>  
Min

**⊕ Equivalent Circuit Schematic :**

**⊕ Material List :**

No.	Location	Material
1	Core(Topcore)	MnZn, SQ1515
2	Wire(Ronsen Flat)	SFT-UEWJ UL:E164502
3	Base(Chang Chun)	T375HF, 150°C UL:E59481
4	Adhesive(RONGTAL)	306
5	Solder(Brazing)	Sn99.3 Cu0.7

1. Operating temperature -30°C ~ +105°C

2. Keep Temperature Range -30°C ~ +60°C

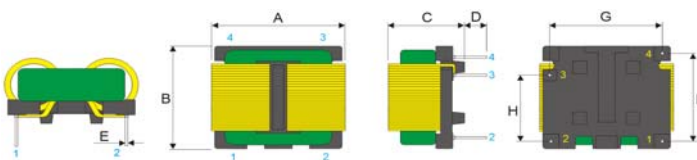
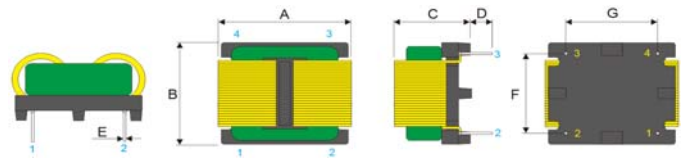
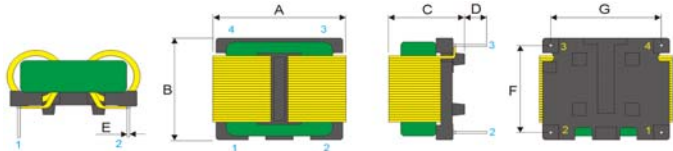
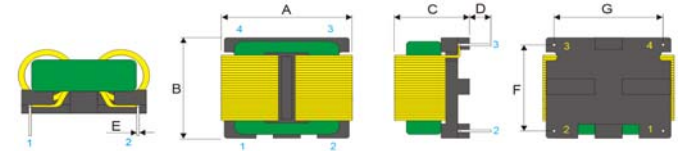
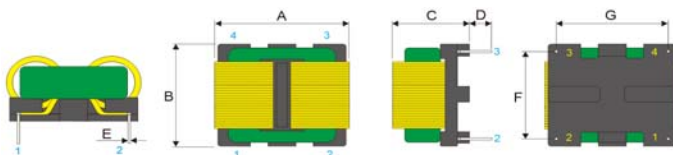


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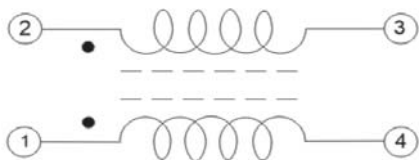
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Series name	Dimensions Code		Internal code	Inductance		Tolerance		Tolerance
LSQ	1515B	SQ1515 Case	2R0 = 2A	102	1 mH	N	30%	K70=7000ui
	1515C	SQ1515 Coating	100 = 10A	153	15 mH			T10=10000ui
			S = Vertical	103	10 mH			T12=12000ui
			L = Horizontal					

**⊕ Shapes And Dimensions**
**LSQ1515-L**

**LSQ1515-LA**

**LSQ1515-LB**

**LSQ1515-LC**

**LSQ1515-LD**


Part No.	Dimensions(mm)								
	A (Max)	B (Max)	C (Max)	D (±0.5)	E (±0.1)	F (±0.5)	G (±0.5)	H (±0.5)	
LSQ1515-L	22.0	17.0	15.0	3.5	0.7	12.9	17.0	9.0	
LSQ1515-LA	22.5	17.5	15.4	3.5	0.8	13.0	10.0		
LSQ1515-LB	23.5	18.0	16.0	3.5	0.7	12.9	17.0		
LSQ1515-LC	21.0	17.0	14.0	3.5	0.6	12.0	13.3		
LSQ1515-LD	21.0	17.0	12.5	3.5	0.6	12.0	13.3		

Part No.	L (mH)	Tolerance	DCR (mΩ)	Rated Current (A)	Wire (mm)	Turns (Ts)	Freq.	Hi-Pot (N1-N2)	Insulation resistance (MΩ)
LSQ1515C1R0□-183-T12	18.5	Min	350 Max	1.0 Max	0.10x1.0	68 Ref	1KHz/0.25V		
LSQ1515C1R0□-353-T12	35	Min	380 Max	1.0 Max	0.10x1.0	68 Ref	1KHz/0.3V		
LSQ1515C1R3□-103-T12	10.5	-30%/+50%	180 Max	1.5 Max	0.13x1.0	48 Ref	100KHz/1V		
LSQ1515C1R3□-133-T10	13	Min	260 Max	1.3 Max	0.13x1.0	57 Ref	1KHz/0.3V		
LSQ1515C1R5□-103-T10	10	Min	210 Max	1.5 Max	0.15x1.0	50 Ref	1KHz/0.3V		
LSQ1515C1R5□-103-T10	10	Min	210 Max	1.5 Max	0.15x1.0	50 Ref	20KHz/0.1V		
LSQ1515C1R5□-103-T12	10	Min	210 Max	1.5 Max	0.15x1.0	50 Ref	20KHz/0.1V		
LSQ1515C1R5□-203-T12	20	Min	250 Max	1.5 Max	0.13x1.0	56 Ref	1KHz/0.3V		
LSQ1515C1R5□-253-T12	25	Min	120 Max	1.5 Max	0.13x1.0	56 Ref	1KHz/0.25V		
LSQ1515C1R5□-283-T12	28	Min	250 Max	1.5 Max	0.13x1.0	56 Ref	1KHz/0.3V		
LSQ1515C2R0□-802-T10	8	±50%	110 Max	2.0 Max	0.20x1.0	40 Ref	1KHz/1V		
LSQ1515C2R0□-143-T12	14	-30%/+50%	130 Max	2.0 Max	0.20x1.0	39 Ref	1KHz/1V		
LSQ1515C2R0□-153-T10	15	-30%/+50%	120 Max	2.0 Max	0.20x1.0	39 Ref	1KHz/1V		
LSQ1515C2R0□-153-T12	15	Min	120 Max	2.0 Max	0.20x1.0	39 Ref	1KHz/0.25V		
LSQ1515C2R0□-183-T12	18	Min	130 Max	2.0 Max	0.15x1.5	48 Ref	1KHz/0.25V		
LSQ1515C2R0□-193-T10	18.5	Min	130 Max	2.0 Max	0.20x1.0	39 Ref	1KHz/0.3V		
LSQ1515C2R0□-203-T10	20	Min	130 Max	2.0 Max	0.20x1.0	39 Ref	1KHz/0.3V		
LSQ1515C2R0□-253-T10	25	-30%/+50%	260 Max	2.0 Max	0.15x1.5	50 Ref	1KHz/0.25V		
LSQ1515C2R5□-502-T10	5	-30%/+50%	80 Max	2.5 Max	0.25x1.0	34 Ref	20KHz/0.1V		
LSQ1515C2R5□-103-T12	10	-30%/+50%	130 Max	2.5 Max	0.25x1.0	32 Ref	1KHz/1V		
LSQ1515C3R0□-422-T10	4.2	Min	80 Max	3.0 Max	0.25x1.2	35 Ref	1KHz/1V		
LSQ1515C3R0□-103-T12	10	Min	55 Max	3.0 Max	0.20x1.5	35 Ref	1KHz/0.3V		
LSQ1515C3R0□-153-T12	15	Min	100 Max	3.0 Max	0.20x1.5	40 Ref	1KHz/0.3V		
LSQ1515C4R0□-502-T10	5	±50%	55 Max	4.0 Max	0.30x1.2	30 Ref	100KHz/1V		
LSQ1515C4R0□-502-T12	5	-30%/+50%	55 Max	4.0 Max	0.30x1.2	30 Ref	1KHz/1V		
LSQ1515C4R0□-562-T10	5.6	Min	110 Max	4.0 Max	0.20x1.0	40 Ref	1KHz/1V		
LSQ1515C4R0□-802-T10	8	Min	50 Max	4.0 Max	0.25x1.5	34 Ref	1KHz/0.3V		
LSQ1515C4R5□-402-T12	4	Min	40 Max	4.5 Max	0.30x1.5	28 Ref	1KHz/0.3V		
LSQ1515C5R0□-232-T10	2.3	Min	30 Max	5.0 Max	0.40x1.2	22 Ref	1KHz/1V		
LSQ1515C5R0□-472-T12	4.7	Min	30 Max	5.0 Max	0.35x1.5	25 Ref	1KHz/1V		

AC1000V  
3 Sec,  
1mA,  
@AC 50Hz  
100  
@500V<sub>DC</sub>  
Min

**⊕ Equivalent Circuit Schematic :**

**⊕ Material List :**

No.	Location	Material
1	Core(Topcore)	MnZn, SQ1515
2	Wire(Ronsen Flat)	SFT-UEWJ UL:E164502
3	Base(Chang Chun)	T375HF, 150°C UL:E59481
4	Adhesive(RONGTAI)	306
5	Solder(Brazing)	Sn99.3 Cu0.7

1. Operating temperature -30°C ~ +105°C
2. Keep Temperature Range -30°C ~ +60°C



**⊕ Feature**

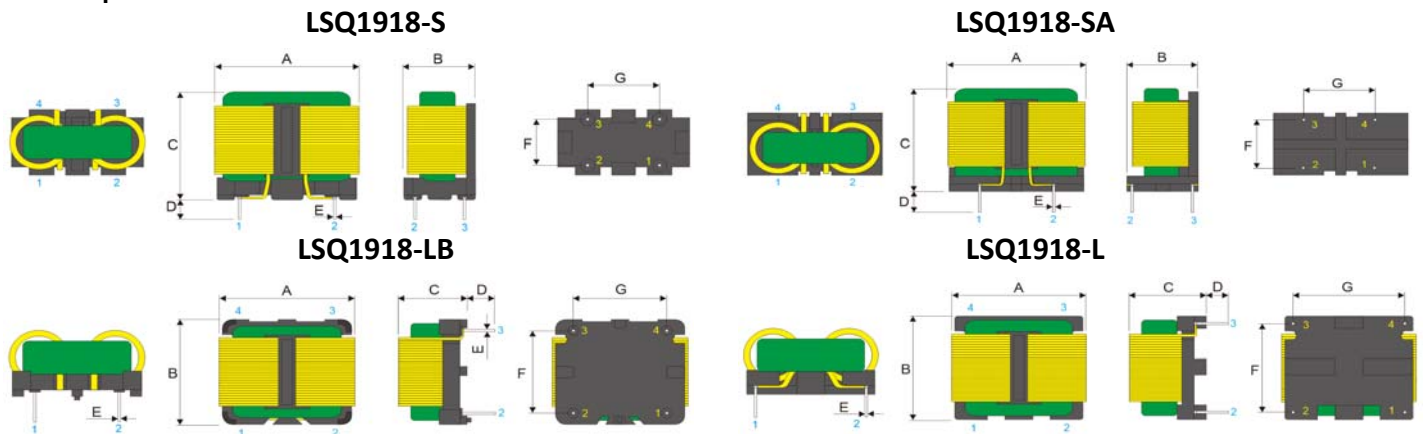
- Low DC resistance, the distribution of capacitance is minimum.
- Closed magnetic circuit, small magnetic leakage, the effect of EMI achieved the expectation.

**⊕ Applications**

- AC/DC adaptors.
- Switching Power Supplies.
- LED lights.
- Monitor and Display Units.

**⊕ Product Identification :**

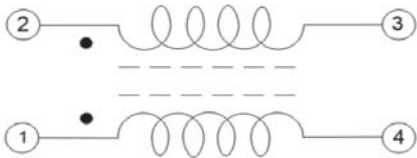
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1	2	3		4	5		6	
Series name	Dimensions Code		Internal code	Inductance		Tolerance		Tolerance
LSQ	1918B	SQ1918 Case	2R0 = 2A	102	1 mH	N	30%	K70=7000ui
	1918C	SQ1918 Coating	100 = 10A	153	15 mH			T10=10000ui
			S = Vertical	103	10 mH			T12=12000ui
			L = Horizontal					

**⊕ Shapes And Dimensions**


Part No.	Dimensions(mm)							
	A (Max)	B (Max)	C (Max)	D (±0.5)	E (±0.1)	F (±0.5)	G (±0.5)	
LSQ1918-S	25.0	14.0	24.0	3.5	0.7	10.0	13.0	
LSQ1918-SA	23.5	14.0	25.5	3.5	0.8	10.0	13.0	
LSQ1918-L	24.0	23.0	13.5	3.5	0.6	15.5	17.0	
LSQ1918-LB	24.0	23.0	13.5	3.5	0.6	15.5	17.0	

Part No.	L (mH)	Tolerance	DCR (mΩ)	Rated Current (A)	Wire (mm)	Turns (Ts)	Freq.	Hi-Pot (N1-N2)	Insulation resistance (MΩ)
LSQ1918B2R0□-113N-T10	11	-30%/+50%	155 Max	2.0 Max	0.20x1.0	50 Ref	100KHz/0.3V	AC1000V 3 Sec, 1mA, @AC 50Hz	100 @500V <sub>DC</sub> Min
LSQ1918B3R0□-802-T10	8	Min	100 Max	3.0 Max	0.20x1.5	46 Ref	1KHz/1V		
LSQ1918C1R3□-203-T12	20	Min	280 Max	1.3 Max	0.13x1.0	68 Ref	1KHz/0.3V		
LSQ1918C1R3□-403-T12	40	Min	260 Max	1.3 Max	0.13x1.0	73 Ref	1KHz/0.25V		
LSQ1918C1R3□-543-T10	54	Min	280 Max	1.3 Max	0.13x1.0	73 Ref	1KHz/0.25V		
LSQ1918C1R5□-153-T10	15	Min	220 Max	1.5 Max	0.15x1.0	58 Ref	1KHz/0.25V		
LSQ1918C1R5□-203-T12	20	Min	300 Max	1.5 Max	0.15x1.0	62 Ref	1KHz/0.25V		
LSQ1918C2R0□-113-T10	11	±50%	155 Max	2.0 Max	0.20x1.0	50 Ref	1KHz/0.3V		

Part No.	L (mH)	Tolerance	DCR (mΩ)	Rated Current (A)	Wire (mm)	Turns (Ts)	Freq.	Hi-Pot (N1-N2)	Insulation resistance (MΩ)
LSQ1918C2R0□-113N-T10	11	-30%/+50%	155 Max	2.0 Max	0.20x1.0	50 Ref	1KHz/0.3V	AC1000V 3 Sec, 1mA, @AC 50Hz	100 @500V <sub>DC</sub> Min
LSQ1918C2R0□-153-T12	15	Min	150 Max	2.0 Max	0.20x1.0	50 Ref	1KHz/0.3V		
LSQ1918C3R0□-103-T10	10	Min	100 Max	3.0 Max	0.20x1.5	50 Ref	1KHz/0.3V		
LSQ1918C3R0□-952-T10	9.5	-30%/+50%	100 Max	3.0 Max	0.25x1.2	42 Ref	100KHz/0.3V		
LSQ1918C4R0□-402-T10	4	Min	65 Max	4.0 Max	0.30x1.2	37 Ref	100KHz/1V		
LSQ1918C4R0□-802-T12	8	Min	70 Max	4.0 Max	0.25x1.5	42 Ref	1KHz/0.3V		
LSQ1918C5R0□-502-T10	5	-30%/+50%	50 Max	5.0 Max	0.40x1.2	29 Ref	1KHz/1V		
LSQ1918C6R0□-402-T12	4	±50%	30 Max	6.0 Max	0.40x1.5	27 Ref	100KHz/1V		

**⊕ Equivalent Circuit Schematic :**

**⊕ Material List :**

No.	Location	Material
1	Core(Topcore)	MnZn, SQ1918
2	Wire(Ronsen Flat)	SFT-UEWJ UL:E164502
3	Base(Chang Chun)	T375HF, 150°C UL:E59481
4	Adhesive(RONGTAL)	306
5	Solder(Brazing)	Sn99.3 Cu0.7

1. Operating temperature -30°C ~ +105°C

2. Keep Temperature Range -30°C ~ +60°C

**⊕ Feature**

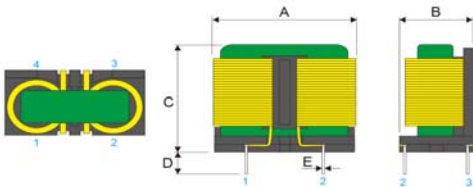
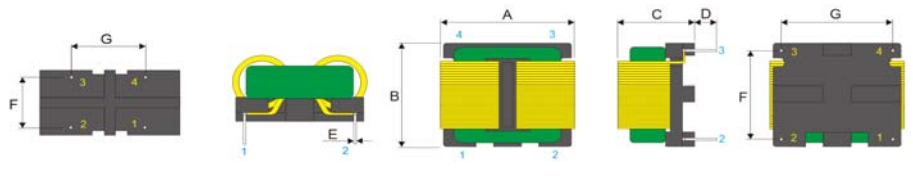
- Low DC resistance, the distribution of capacitance is minimum.
- Closed magnetic circuit, small magnetic leakage, the effect of EMI achieved the expectation.

**⊕ Applications**

- AC/DC adaptors.
- Switching Power Supplies.
- LED lights.
- Monitor and Display Units.

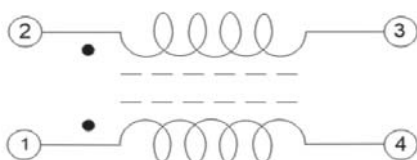
**⊕ Product Identification :**

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1	2	3		4	5		6	
Series name	Dimensions Code		Internal code	Inductance		Tolerance		Tolerance
LSQ	2418B	SQ2418 Case	2R0 = 2A	102	1 mH	N	30%	K70=7000ui
	2418C	SQ2418 Coating	100 = 10A	153	15 mH			T10=10000ui
			S = Vertical	103	10 mH			T12=12000ui
			L = Horizontal					

**⊕ Shapes And Dimensions**
**LSQ2418-S**

**LSQ2418-L**


Part No.	Dimensions(mm)							
	A (Max)	B (Max)	C (Max)	D (±0.5)	E (±0.1)	F (±0.5)	G (±0.5)	
LSQ2418-S	24.0	14.5	32.0	3.5	0.8	4.0	8.0	
LSQ2418-L	24.0	25.5	15.5	3.5	0.7	21.5	17.0	

Part No.	L (mH)	Tolerance	DCR (mΩ)	Rated Current (A)	Wire (mm)	Turns (Ts)	Freq.	Hi-Pot (N1-N2)	Insulation resistance (MΩ)
LSQ2418C2R0□-403-T12	40	±50%	260 Max	2.0 Max	0.20x1.0	75 Ref	1KHz/1V	AC1000V 3 Sec, 1mA, @AC 50Hz	100 @500V <sub>DC</sub> Min
LSQ2418C2R5□-293-T12	29	±50%	175 Max	2.5 Max	0.25x1.0	63 Ref	1KHz/1V		
LSQ2418C3R5□-802-T10	8	Min	100 Max	3.5 Max	0.30x1.2	48 Ref	100KHz/1V		
LSQ2418C4R0□-802-T10	8	Min	85 Max	4.0 Max	0.30x1.5	48 Ref	100KHz/1V		
LSQ2418C4R5□-123-T12	12	±50%	80 Max	4.5 Max	0.35x1.2	47 Ref	1KHz/1V		
LSQ2418C5R0□-402-T10	4	Min	90 Max	5.0 Max	0.35x1.5	46 Ref	100KHz/0.25V		
LSQ2418C5R0□-902-T12	9	±50%	60 Max	5.0 Max	0.40x1.2	40 Ref	1KHz/1V		
LSQ2418C6R0□-382-T10	3.86	Min	35 Max	6.0 Max	0.50x1.2	33 Ref	10KHz/1V		
LSQ2418C6R0□-502-T10	5	Min	80 Max	6.0 Max	0.40x1.5	40 Ref	1KHz/1V		
LSQ2418C6R0□-602-T10	6	±50%	50 Max	6.0 Max	0.40x1.5	40 Ref	100KHz/1V		
LSQ2418C6R5□-472-T10	4.7	Min	50 Max	6.5 Max	0.40x1.5	50 Ref	1KHz/0.25V		
LSQ2418C110□-402-T10	4	-30%/+50%	20 Max	11.0 Max	0.60x1.9	27 Ref	1KHz/1V		

**⊕ Equivalent Circuit Schematic :**

**⊕ Material List :**

No.	Location	Material
1	Core(Topcore)	MnZn, SQ2418
2	Wire(Ronsen Flat)	SFT-UJEWJ UL:E164502
3	Base(Chang Chun)	T375HF, 150°C UL:E59481
4	Adhesive(RONGTAI)	306
5	Solder(Brazing)	Sn99.3 Cu0.7

1.Operating temperature -30°C ~ +105°C

2.Keep Temperature Range -30°C ~ +60°C

**⊕ Feature**

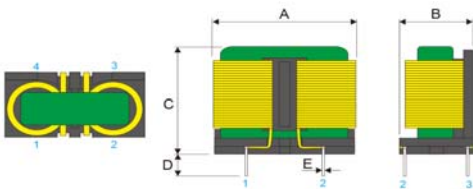
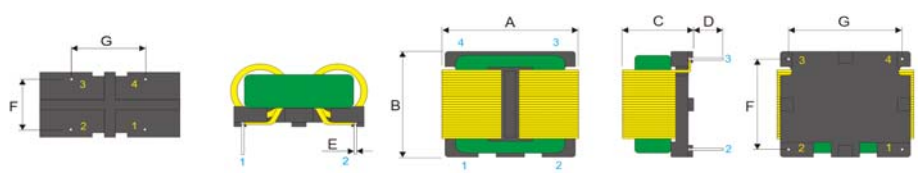
- Low DC resistance, the distribution of capacitance is minimum.
- Closed magnetic circuit, small magnetic leakage, the effect of EMI achieved the expectation.

**⊕ Applications**

- AC/DC adaptors.
- Switching Power Supplies.
- LED lights.
- Monitor and Display Units.

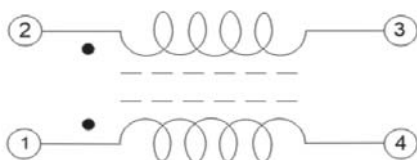
**⊕ Product Identification :**

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1	2	3		4	5		6	
Series name	Dimensions Code		Internal code	Inductance		Tolerance		Tolerance
LSQ	2820B	SQ2820 Case	2R0 = 2A	102	1 mH	N	30%	K70=7000ui
	2820C	SQ2820 Coating	100 = 10A	153	15 mH			T10=10000ui
			S = Vertical	103	10 mH			T12=12000ui
			L = Horizontal					

**⊕ Shapes And Dimensions**
**LSQ2820-S**

**LSQ2820-L**


Part No.	Dimensions(mm)							
	A (Max)	B (Max)	C (Max)	D (±0.5)	E (±0.1)	F (±0.5)	G (±0.5)	
LSQ2820-S	27.0	17.0	36.5	3.5	0.8	10.0	13.0	
LSQ2820-L	32.5	30.5	15.0	3.5	1.0	25.5	27.0	

Part No.	L (mH)	Tolerance	DCR (mΩ)	Rated Current (A)	Wire (mm)	Turns (Ts)	Freq.	Hi-Pot (N1-N2)	Insulation resistance (MΩ)
LSQ2820C5R5□-123-T12	12	Min	75 Max	5.5 Max	0.35x1.5	52 Ref	1KHz/1V	AC1000V 3 Sec, 1mA, @AC 50Hz	100 @50V <sub>DC</sub> Min
LSQ2820C5R5□-213-T12	21	-30%/+50%	75 Max	5.5 Max	0.35x1.5	52 Ref	1KHz/1V		
LSQ2820C5R5□-902-T12	9	Min	75 Max	5.5 Max	0.35x1.5	52 Ref	1KHz/1V		
LSQ2820C6R0□-602-T12	6	-30%/+50%	60 Max	6.0 Max	0.40x1.5	29 Ref	10KHz/1V		
LSQ2820C110□-602-T12	6	-30%/+50%	25 Max	11.0 Max	0.60x1.9	29 Ref	1KHz/1V		
LSQ2820C110□-712-T12	7.1	±35%	25 Max	11.0 Max	0.60x1.9	29 Ref	10KHz/1V		

**⊕ Equivalent Circuit Schematic :**

**⊕ Material List :**

No.	Location	Material
1	Core(Topcore)	MnZn, SQ2820
2	Wire(Ronsen Flat)	SFT-UWJ UL:E164502
3	Base(Chang Chun)	T375HF, 150°C UL:E59481
4	Adhesive(RONGTAI)	306
5	Solder(Brazing)	Sn99.3 Cu0.7

1. Operating temperature -30°C ~ +105°C
2. Keep Temperature Range -30°C ~ +60°C

**⊕ Feature**

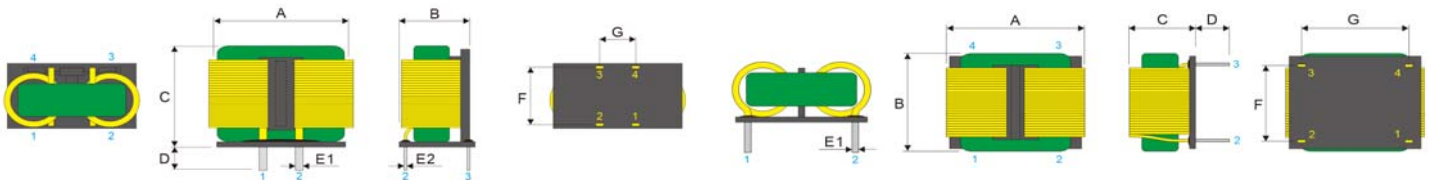
- Low DC resistance, the distribution of capacitance is minimum.
- Closed magnetic circuit, small magnetic leakage, the effect of EMI achieved the expectation.

**⊕ Applications**

- AC/DC adaptors.
- Switching Power Supplies.
- LED lights.
- Monitor and Display Units.

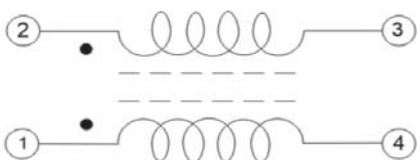
**⊕ Product Identification :**

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1	2	3		4	5		6	
Series name	Dimensions Code		Internal code	Inductance		Tolerance		Tolerance
LSQ	2825C	SQ2825 Coating	2R0 = 2A	102	1 mH	N	30%	K70=7000ui
	3224C	SQ3224 Coating	100 = 10A	153	15 mH			T10=10000ui
	3636C	SQ3636 Coating	S = Vertical L = Horizontal	103	10 mH	T12=12000ui		

**⊕ Shapes And Dimensions**
**LSQ2825-SP、LSQ3224-SP、LSQ3636-SP**
**LSQ3224-LP**


Part No.	Dimensions(mm)								
	A (Max)	B (Max)	C (Max)	D (±0.5)	E1 (±0.5)	E2 (±0.3)	F (±0.5)	G (±0.5)	
LSQ2825-SP	35.0	22.0	30.0	3.5	2.6	1.2	17.0	8.0	
LSQ3224-SP	35.0	21.5	34.0	3.5	2.5	0.6	17.0	8.0	
LSQ3636-SP	47.0	28.5	39.0	4.0	3.5	1.5	22.2	14.0	
LSQ3636-LP	50.0	38.0	26.0	4.0	3.5	1.5	24.0	41.0	

Part No.	L (mH)	Tolerance	DCR (mΩ)	Rated Current (A)	Wire (mm)	Turns (Ts)	Freq.	Hi-Pot (N1-N2)	Insulation resistance (MΩ)
LSQ2825C275SP-142N-K70	1.4	±30%	5 Max	27.5 Max	1.10x2.5	13 Ref	1KHz/0.3V	AC1000V 3 Sec, 1mA, @AC 50Hz	100 @500V <sub>DC</sub> Min
LSQ3224C100SP-113N-K70	11.2	±30%	30 Max	10.0 Max	0.50x2.4	37 Ref	1KHz/0.3V		
LSQ3636C400SP-132N-K70	1.3	±30%	3 Max	40.0 Max	1.50x3.5	10 Ref	1KHz/0.3V		
LSQ3636C400LP-132N-K70	1.3	±30%	3 Max	40.0 Max	1.50x3.5	10 Ref	1KHz/0.3V		

**⊕ Equivalent Circuit Schematic :**

**⊕ Material List :**

No.	Location	Material
1	Core(Topcore)	MnZn, SQ2825,3224,3636
2	Wire(Ronsen Flat)	SFT-UEWJ UL:E164502
3	Base(Chang Chun)	T375HF, 150°C UL:E59481
4	Adhesive(RONGTAL)	306
5	Solder(Brazing)	Sn99.3 Cu0.7

1.Operating temperature -30°C ~ +105°C

2.Keep Temperature Range -30°C ~ +60°C

**⊕ Feature**

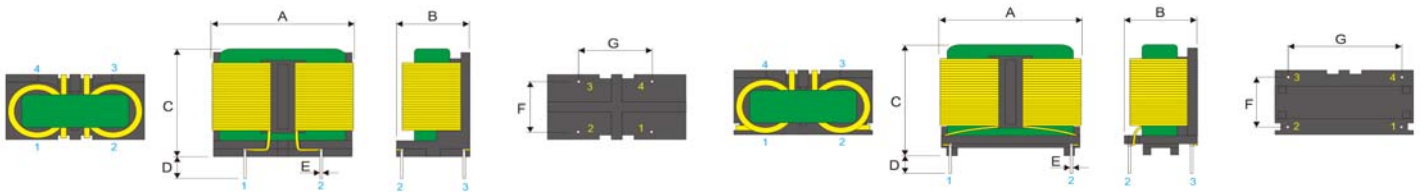
- Low DC resistance, the distribution of capacitance is minimum.
- Closed magnetic circuit, small magnetic leakage, the effect of EMI achieved the expectation.

**⊕ Applications**

- AC/DC adaptors.
- Switching Power Supplies.
- LED lights.
- Monitor and Display Units.

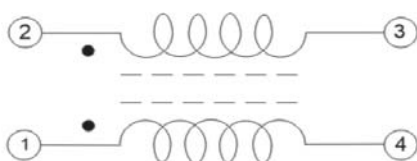
**⊕ Product Identification :**

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1	2	3		4	5		6	
Series name	Dimensions Code		Internal code	Inductance		Tolerance		Tolerance
LSQ	3324B	SQ3324 Case	2R0 = 2A	102	1 mH	N	30%	K70=7000ui
	3324C	SQ3324 Coating	100 = 10A	153	15 mH			T10=10000ui
			S = Vertical	103	10 mH			T12=12000ui
			L = Horizontal					

**⊕ Shapes And Dimensions**
**LSQ3324-S**
**LSQ3324-SB**


Part No.	Dimensions(mm)							
	A (Max)	B (Max)	C (Max)	D (±0.5)	E (±0.1)	F (±0.5)	G (±0.5)	
LSQ3324-S	33.0	20.0	43.0	3.5	1.2	12.0	18.0	
LSQ3324-SB	33.0	24.0	43.0	3.5	1.2	15.9	17.9	

Part No.	L (mH)	Tolerance	DCR (mΩ)	Rated Current (A)	Wire (mm)	Turns (Ts)	Freq.	Hi-Pot (N1-N2)	Insulation resistance (MΩ)
LSQ3324C8R0□-722-T10	7.2	Min	35 Max	8.5 Max	0.60x1.5	30 Ref	1KHz/1V	AC1000V 3 Sec, 1mA, @AC 50Hz	100 @500V <sub>DC</sub> Min
LSQ3324C140□-452-T10	4.5	Min	15 Max	14.0 Max	0.80x2.0	23 Ref	1KHz/0.25V		
LSQ3324C150□-402-T12	4	Min	15 Max	15.0 Max	0.80x2.0	23 Ref	1KHz/0.25V		
LSQ3324C150□-552-T12	5.5	±30%	15 Max	15.0 Max	0.80x2.0	23 Ref	1KHz/0.25V		

**⊕ Equivalent Circuit Schematic :**

**⊕ Material List :**

No.	Location	Material
1	Core(Topcore)	MnZn, SQ3324
2	Wire(Ronsen Flat)	SFT-UJEWJ UL:E164502
3	Base(Chang Chun)	T375HF, 150°C UL:E59481
4	Adhesive(RONGTAI)	306
5	Solder(Brazing)	Sn99.3 Cu0.7

1. Operating temperature -30°C ~ +105°C
2. Keep Temperature Range -30°C ~ +60°C

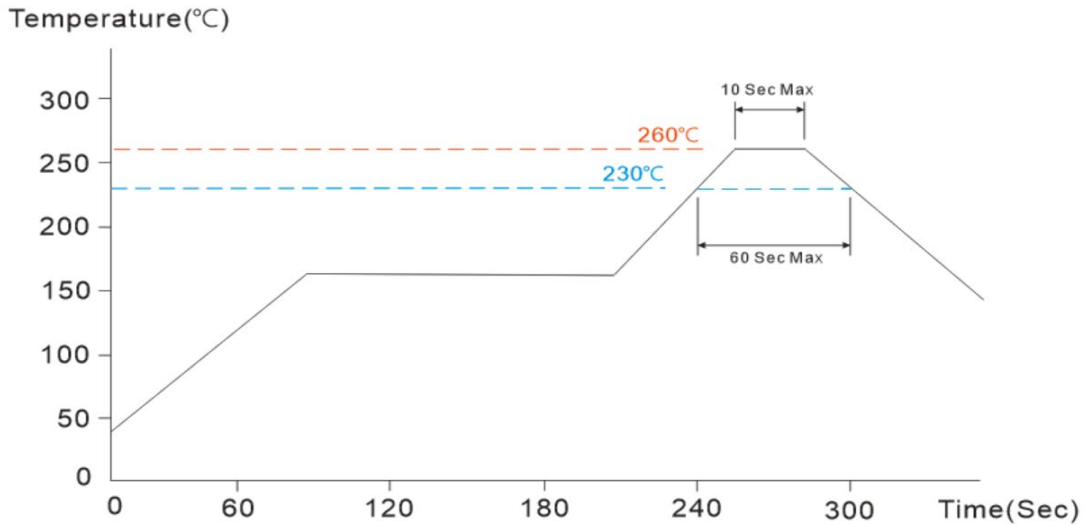


**⊕ Environmental test**

Item	Test Method/Conditions	Required Characteristics
DRY HEAT	105+/-5°C 96 +/-2HOURS	1. NO ANY ABNORMALITY 2. $ \Delta L /L \leq 10\%$ 3. OTHER ELECTRICAL CHARACTERISTICS MUST ACCORD WITH THE SPECIFICATION.
COLD	-20+/-3°C 96 +/-2HOURS	
DAMP HEAT	55+/-2°C, 90-95% RH 96 +/-2HOURS.	
THERMAL SHOCK	EXPOSED 10 CYCLE. EACH CONSISTING OF 30 MINUTES AT -20+/-2°C, 30MINUTES AT 80+/-2°C	
HUMIDITY CYCLING	-10°C~+60°C, 80~96%RH FOR 240HOURS(10 CYCLES)	
HIGH TEMPERATURE STORAGE	80±2°C,48±2 HOURS,TEST AFTER 1 HOUR AT ROOM TEMPERATURE	
LOW TEMPERATURE STORAGE	-20±2°C,48±2 HOURS,TEST AFTER 1 HOUR AT ROOM TEMPERATURE	

**⊕ Mechanical test**

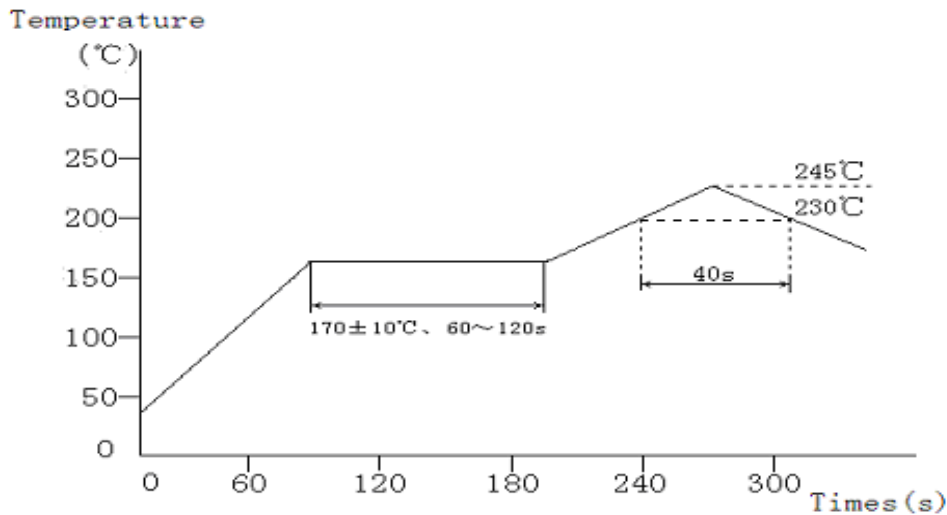
Item	Test Method/Conditions	Required Characteristics
TERMINAL STRENGTH	TENSILE TESTS CARRIED OUT ACCORDING TO TABLE 1	NO PIN BE SHEDED AND MOVED CLEARLY
VIBRATION	1.5mm AMPLITUDE TOTAL EXCURSION 10-55-10Hz TRAVERSED IN 1 MINUTE. X.Y.Z. AXIS FOR 2 HOURS.	SHALL NOT BE ANY ABNORMALITY, ELECTRICAL CHARACTERISTICS MUST ACCORD WITH THE SPECIFICATION
RESISTANCE TO SOLDERING HEAT	DIPPED IN 260°C+/-5°C MOLTEN SOLDER FOR 10+/-1s.	NO ANY ABNORMALITY.
SOLDERBILITY	DIPPED IN 260°C+/-5°C MOLTEN SOLDER FOR 10+/-1s.	95%MIN SHALL BE SMOOTH AND BRIGHT.

**⊕ Reflow Soldering Heat Endurance**


No mechanical and electrical defects are found after testing based on the above profile and keeping under the conditions of room temperature and humidity for 2 hours.

Twice reflow test is acceptable with the test interval remaining 1 hour under the normal conditions.

The reflow test profile may vary with the testing instruments.

**⊕ Recommended Reflow Conditions**


The recommended reflow profile is based on the testing instruments used. Solder ability will depend on the testing equipments, reflow conditions, testing method, etc. So it is necessary to make a confirmation of them when the reflow conditions are set up.

However halogen lamp shall be used, side heat will be beyond range of resistance heat, so we can't recommend it.

**⊕ Packing Specifications**
**一、 外箱规格（纸箱）：**

成品代碼	料號	外箱規格	數量	重量
LSQ Series	LSQ Series	40cm*28cm*13cm	By individual specifications	By Item


**二、 每箱内包装摆放方式：**

成品代碼	料號	包裝方式	包裝數量及說明
LSQ Series	LSQ Series	P.E.T	37cm*26cm*3cm By individual specifications

NOTE/注意:The every part measure is a reference value./以上各尺寸是參考值。

