

30°SC.CO

Inductors for Power Circuits

Wound/STD • magnetic shielded

SLF series

Type: SLF6025 (6.0x6.0 mm)

SLF6028 (6.0x6.0 mm)
SLF6045 (6.0x6.0 mm)
SLF7032 (7.0x7.0 mm)
SLF7045 (7.0x7.0 mm)
SLF7055 (7.0x7.0 mm)
SLF10145 (10.1x10.1 mm)
SLF10165 (10.1x10.1 mm)
SLF12555 (12.5x12.5 mm)
SLF12565 (12.5x12.5 mm)
SLF12575 (12.5x12.5 mm)

Issue date:

September 2012

[•] All specifications are subject to change without notice.

[•] Conformity to RoHS Directive: This means that, in conformity with EU Directive 2002/95/EC, lead, cadmium, mercury, hexavalent chromium, and specific bromine-based flame retardants, PBB and PBDE, have not been used, except for exempted applications.



Conformity to RoHS Directive

SLF Series SLF6025

FEATURES

- The SLF series are characterized by low profile, low DC resistance, and high current handling capacities.
- Because they are magnetically shielded, these parts can be used in high-density mounting configurations.
- Flat bottom surface ensures secure, reliable mounting.
- Provided in embossed carrier tape packaging for use with automatic mounting machines.

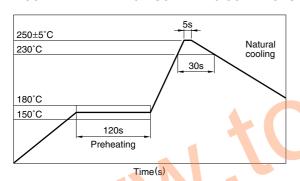
APPLICATIONS

Portable telephones, personal computers, hard disk drives, and other electronic equipment.

SPECIFICATIONS

Operating temperature range	-40 to +105°C
	[Including self-temperature rise]
Storage temperature range	-40 to +105°C[Unit of products]

RECOMMENDED REFLOW SOLDERING CONDITIONS



PRODUCT IDENTIFICATION

SLF	6025	T-	4R7	M	1R5 ·	- PF
(1)	(2)	(3)	(4)	(5)	(6)	(7)

- (1) Series name
- (2) Dimensions

6025	6.0×6.0×2.5mm (L×W×T)

(3) Packaging style

	-	_	-		
T				Taping(reel)	

(4) Inductance value

4R7	4.7μΗ	
100	10uH	

(5) Inductance tolerance

M	±20%

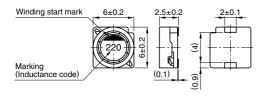
(6) Rated current

1R5	1.5A	
R88	0.88A	

(7) Lead-free compatible product

Packaging style	Quantity
Taping	1000 pieces/reel

[•] Conformity to RoHS Directive: This means that, in conformity with EU Directive 2002/95/EC, lead, cadmium, mercury, hexavalent chromium, and specific bromine-based flame retardants, PBB and PBDE, have not been used, except for exempted applications.







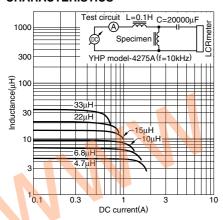
Weight: 0.3g typ.

Dimensions in mm

ELECTRICAL CHARACTERISTICS

	la di cata a a a	Took from too and	DO!	Rated current (A)*		
	Inductance tolerance	Test frequency L (kHz)	DC resistance $(\Omega)\pm20\%$	Based on inductance change	Based on temperature rise	Part No.
4.7	±20%	100	0.0306	1.5max.	1.8typ.	SLF6025T-4R7M1R5-PF
6.8	±20%	100	0.0442	1.3max.	1.5typ.	SLF6025T-6R8M1R3-PF
10	±20%	100	0.0573	1max.	1.3typ.	SLF6025T-100M1R0-PF
15	±20%	100	0.085	0.88max.	1.1typ.	SLF6025T-150MR88-PF
22	±20%	100	0.122	0.73max.	0.94typ.	SLF6025T-220MR73-PF
33	±20%	100	0.18	0.59max.	0.79typ.	SLF6025T-330MR59-PF
47	±20%	100	0.24	0.48max.	0.67typ.	SLF6025T-470MR48-PF
68	±20%	100	0.37	0.42max.	0.54typ.	SLF6025T-680MR42-PF
100	±20%	100	0.5	0.33max.	0.47typ.	SLF6025T-101MR33-PF

^{*} Rated current: Value obtained when current flows and the temperature has risen to 25°C or when DC current flows and the nominal value of inductance has fallen by 30%, whichever is smaller.



Test equipmentL: 4194A IMPEDANCE/GAIN-PHASE ANALYZER HP, or equivalent
 Rdc: DIGITAL MILLIOHM METER VP-2941A MATSUSHITA, or equivalent

[•] All specifications are subject to change without notice.



Conformity to RoHS Directive

SLF Series SLF6028

FEATURES

- The SLF series are characterized by low profile, low DC resistance, and high current handling capacities.
- Because they are magnetically shielded, these parts can be used in high-density mounting configurations.
- Flat bottom surface ensures secure, reliable mounting.
- Provided in embossed carrier tape packaging for use with automatic mounting machines.

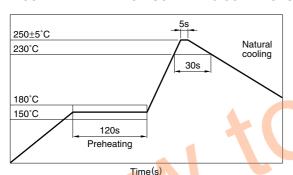
APPLICATIONS

Portable telephones, personal computers, hard disk drives, and other electronic equipment.

SPECIFICATIONS

Operating temperature range	-40 to +105°C
	[Including self-temperature rise]
Storage temperature range	-40 to +105°C[Unit of products]

RECOMMENDED REFLOW SOLDERING CONDITIONS



PRODUCT IDENTIFICATION

SLF	6028	T-	4R7	M	1R6 -	- PF
(1)	(2)	(3)	(4)	(5)	(6)	(7)

- (1) Series name
- (2) Dimensions

6028	6.0×6.0×2.8mm (L×W×T)

(3) Packaging style

	-	_	-		
T				Taping(reel)	

(4) Inductance value

4R7	4.7μΗ	
100	10uH	

(5) Inductance tolerance

M	±20%

(6) Rated current

1R6	1.6A		
R77	0.77A		

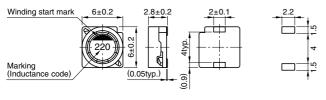
(7) Lead-free compatible product

- 1	'	Lead-free compatible product

Packaging style	Quantity
Taping	1000 pieces/reel

[•] Conformity to RoHS Directive: This means that, in conformity with EU Directive 2002/95/EC, lead, cadmium, mercury, hexavalent chromium, and specific bromine-based flame retardants, PBB and PBDE, have not been used, except for exempted applications.





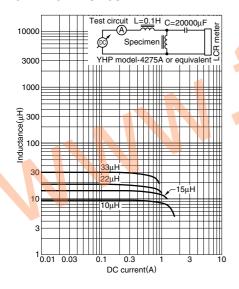
Weight: 0.3g typ.

Dimensions in mm

ELECTRICAL CHARACTERISTICS

Inductance	Inductance	Toot fraguancy	DC resistance	Rated current (A)*		
(μH)	tolerance	Test frequency L (kHz)	$(\Omega)\pm20\%$	Based on inductance change	Based on temperature rise	Part No.
4.7	±20%	100	0.0284	1.6max.	2.5typ.	SLF6028T-4R7M1R6-PF
6.8	±20%	100	0.0354	1.5max.	2.2typ.	SLF6028T-6R8M1R5-PF
10	±20%	100	0.0532	1.3max.	1.8typ.	SLF6028T-100M1R3-PF
15	±20%	100	0.0745	1max.	1.4typ.	SLF6028T-150M1R0-PF
22	±20%	100	0.104	0.77max.	1.3typ.	SLF6028T-220MR77-PF
33	±20%	100	0.148	0.69max.	1.1typ.	SLF6028T-330MR69-PF
47	±20%	100	0.21	0.59max.	0.92typ.	SLF6028T-470MR59-PF
68	±20%	100	0.29	0.5max.	0.78typ.	SLF6028T-680MR50-PF
100	±20%	100	0.43	0.42max.	0.64typ.	SLF6028T-101MR42-PF
150	±20%	100	0.65	0.34max.	0.5typ.	SLF6028T-151MR34-PF
220	±20%	100	0.98	0.26max.	0.38typ.	SLF6028T-221MR26-PF

^{*} Rated current: Value obtained when current flows and the temperature has risen to 25°C or when DC current flows and the nominal value of inductance has fallen by 30%, whichever is smaller.



Test equipment L: 4194A IMPEDANCE/GAIN-PHASE ANALYZER HP, or equivalent (Test frequency: 100kHz/0.5V)
 Rdc: DIGITAL MILLIOHM METER VP-2941A MATSUSHITA, or equivalent

[•] All specifications are subject to change without notice.



Conformity to RoHS Directive

SLF Series SLF6045

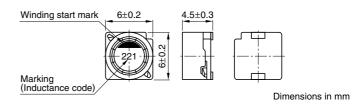
FEATURES

- Miniature size
 Mount area: 6×6mm
 Height: 4.8mm max.
- Generic use for portable DC to DC converter line.
- High magnetic shield construction should actualize high resolution for EMC protection.
- Available for automatic mounting in tape and real package.
- The products do not contain lead and support lead-free soldering.

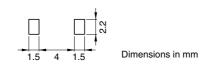
APPLICATIONS

LCD-TVs, PDP-TVs, LCD displays, DVD recorders, HDDs, DSCs, etc.

SHAPES AND DIMENSIONS



RECOMMENDED PC BOARD PATTERN





ELECTRICAL CHARACTERISTICS

	Inductance	Inductance	Test frequency	DC resistance	Rated current(A)*		
Part No.	(µH)	tolerance(%) (kHz)		$(m\Omega)$	Based on inductance change	Based on temperature rise	
SLF6045T-1R5N4R0-3PF	1.5	±30	100	16±30%	4	4.1	
SLF6045T-2R2N3R3-3PF	2.2	±30	100	18±30%	3.3	3.8	
SLF6045T-3R3N2R8-3PF	3.3	±30	100	21.5±30%	2.8	3.4	
SLF6045T-4R7N2R4-3PF	4.7	±30	100	26.5±30%	2.4	3.2	
SLF6045T-6R8N2R0-3PF	6.8	±30	100	33±30%	2	2.8	
SLF6045T-100M1R6-3PF	10	±20	100	39±20%	1.6	2.7	
SLF6045T-150M1R3-3PF	15	±20	100	59.5±20%	1.3	2.2	
SLF6045T-220M1R1-3PF	22	±20	100	82±20%	1.1	1.8	

^{*} Rated current: Value obtained when current flows and the temperature has risen to 30°C or when DC current flows and the nominal value of inductance has fallen by 10%, whichever is smaller.

• Conformity to RoHS Directive: This means that, in conformity with EU Directive 2002/95/EC, lead, cadmium, mercury, hexavalent chromium, and specific bromine-based flame retardants, PBB and PBDE, have not been used, except for exempted applications.

[•] Operating temperature range: -40 to +105°C (Including self-temperature rise)



Conformity to RoHS Directive

SLF Series SLF7032

FEATURES

- The SLF series are characterized by low profile, low DC resistance, and high current handling capacities.
- Because they are magnetically shielded, these parts can be used in high-density mounting configurations.
- Flat bottom surface ensures secure, reliable mounting.
- Provided in embossed carrier tape packaging for use with automatic mounting machines.

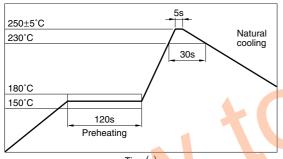
APPLICATIONS

Portable telephones, personal computers, hard disk drives, and other electronic equipment.

SPECIFICATIONS

Operating temperature range	−40 to +105°C
Operating temperature range	[Including self-temperature rise]
Storage temperature range	–40 to +105°C[Unit of products]

RECOMMENDED REFLOW SOLDERING CONDITIONS



Time(s)

PRODUCT IDENTIFICATION

SLF	7032	T-	220	М	R96	-2	PF
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)

- (1) Series name
- (2) Dimensions

7032	7.0×7.0×3.2mm (L×W×T)	

(3) Packaging style

T	Taping(reel)
•	.αρg(.σσ.)

(4) Inductance value

3R3	3.3μΗ	
100	10uH	

(5) Inductance tolerance

М	±20%	4				

(6) Rated current

1R9	1.9A	
R96	0.96A	

(7) TDK internal code

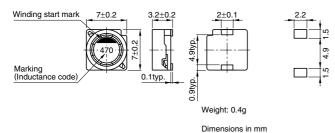
Some products may not have this number.

(8) Lead-free compatible product

F	PF	Lead-free compatible product

Packaging style	Quantity
Taping	1000 pieces/reel

[•] Conformity to RoHS Directive: This means that, in conformity with EU Directive 2002/95/EC, lead, cadmium, mercury, hexavalent chromium, and specific bromine-based flame retardants, PBB and PBDE, have not been used, except for exempted applications.

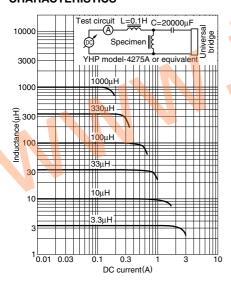




ELECTRICAL CHARACTERISTICS

Inductance	Inductance	Test frequency	DC resistance	Rated current	Part No.
<u>(μH)</u>	tolerance	L (kHz)	(Ω)±20%	(A)max.	
3.3	±20%	100	0.023	1.9	SLF7032T-3R3M1R9-2PF
4.7	±20%	100	0.030	1.7	SLF7032T-4R7M1R7-2PF
6.8	±20%	100	0.041	1.6	SLF7032T-6R8M1R6-2PF
10	±20%	100	0.053	1.4	SLF7032T-100M1R4-2PF
15	±20%	100	0.075	1.1	SLF7032T-150M1R1-2PF
22	±20%	100	0.11	0.96	SLF7032T-220MR96-2PF
33	±20%	100	0.16	0.75	SLF7032T-330MR75-2PF
47	±20%	100	0.24	0.67	SLF7032T-470MR67-2PF
68	±20%	100	0.31	0.59	SLF7032T-680MR59-2PF
100	±20%	100	0.45	0.45	SLF7032T-101MR45-2PF
150	±20%	100	0.65	0.37	SLF7032T-151MR37-2PF
220	±20%	100	1.05	0.29	SLF7032T-221MR29-2PF
330	±20%	100	1.67	0.22	SLF7032T-331MR22-2PF
470	±20%	100	2.05	0.2	SLF7032T-471MR20-2PF
680	±20%	100	3.15	0.16	SLF7032T-681MR16-2PF
1000	±20%	100	4.78	0.13	SLF7032T-102MR13-2PF

Test equipment L: 4194A IMPEDANCE/GAIN-PHASE ANALYZER HP, or equivalent (Measured at 100kHz/0.5V)
 Rdc:MATSUSHITA,VP-2941A DIGITAL MILLIOHM METER, or equivalent



[•] All specifications are subject to change without notice.



Conformity to RoHS Directive

SLF Series SLF7045

FEATURES

- The SLF series are characterized by low profile, low DC resistance, and high current handling capacities.
- Because they are magnetically shielded, these parts can be used in high-density mounting configurations.
- Flat bottom surface ensures secure, reliable mounting.
- Provided in embossed carrier tape packaging for use with automatic mounting machines.

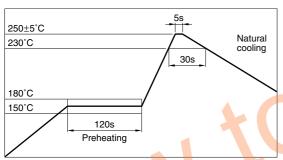
APPLICATIONS

Portable telephones, personal computers, hard disk drives, and other electronic equipment.

SPECIFICATIONS

Operating temperature range	−40 to +105°C
Operating temperature range	[Including self-temperature rise]
Storage temperature range	–40 to +105°C[Unit of products]

RECOMMENDED REFLOW SOLDERING CONDITIONS



Time(s)

PRODUCT IDENTIFICATION

SLF	7045	T-	220	М	R90	- PF
(1)	(2)	(3)	(4)	(5)	(6)	(7)

- (1) Series name
- (2) Dimensions

7045	7.0×7.0×4.5mm (L×W×T)

(3) Packaging style

	_		
T	•	Taping(reel)	

(4) Inductance value

3R3	3.3μΗ	
100	10uH	

(5) Inductance tolerance

M	±20%

(6) Rated current

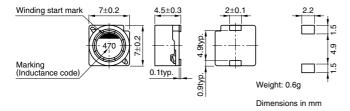
2R5	2.5A	
R90	0.90A	

(7) Lead-free compatible product

PF Lead-free compatible product

Packaging style	Quantity
Taping	1000 pieces/reel

[•] Conformity to RoHS Directive: This means that, in conformity with EU Directive 2002/95/EC, lead, cadmium, mercury, hexavalent chromium, and specific bromine-based flame retardants, PBB and PBDE, have not been used, except for exempted applications.

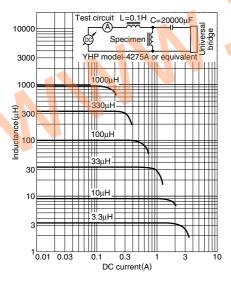




ELECTRICAL CHARACTERISTICS

Industrial Test formula		T1 (DO	Rated current(A)* max			
Inductance (µH)	Inductance tolerance	Test frequency L (kHz)	DC resistance $(\Omega)\pm20\%$	Based on inductance change	Based on temperature rise	Part No.	
3.3	±20%	100	0.02	2.5	2.3	SLF7045T-3R3M2R5-PF	
4.7	±20%	100	0.03	2	2.1	SLF7045T-4R7M2R0-PF	
6.8	±20%	100	0.039	1.7	1.74	SLF7045T-6R8M1R7-PF	
10	±20%	100	0.036	1.3	1.78	SLF7045T-100M1R3-PF	
15	±20%	100	0.052	1.1	1.53	SLF7045T-150M1R1-PF	
22	±20%	100	0.061	0.9	1.34	SLF7045T-220MR90-PF	
33	±20%	100	0.096	0.82	1.09	SLF7045T-330MR82-PF	
47	±20%	100	0.125	0.75	0.92	SLF7045T-470MR75-PF	
68	±20%	100	0.175	0.6	0.77	SLF7045T-680MR60-PF	
100	±20%	100	0.25	0.5	0.65	SLF7045T-101MR <mark>50-PF</mark>	
150	±20%	100	0.34	0.4	0.55	SLF7045T-151MR40-PF	
220	±20%	100	0.52	0.33	0.45	SLF7045T-221MR33-PF	
330	±20%	100	0.74	0.25	0.37	SLF7045T-331MR25-PF	
470	±20%	100	1.05	0.22	0.31	SLF7045T-471MR22-PF	
680	±20%	100	1.48	0.2	0.27	SLF7045T-681MR20-PF	
1000	±20%	100	2.28	0.14	0.25	SLF7045T-102MR14-PF	

^{*} Rated current: Value obtained when current flows and the temperature has risen to 20°C or when DC current flows and the nominal value of inductance has fallen by 10%, whichever is smaller.



Test equipment L: 4194A IMPEDANCE/GAIN-PHASE ANALYZER HP, or equivalent (Measured at 100kHz/0.5V)
 Rdc:MATSUSHITA, VP-2941A DIGITAL MILLIOHM METER, or equivalent

[•] All specifications are subject to change without notice.



Conformity to RoHS Directive

SLF Series SLF7055

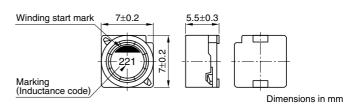
FEATURES

- Miniature size
 Mount area: 7×7mm
 Height: 5.8mm max.
- Generic use for portable DC to DC converter line.
- High magnetic shield construction should actualize high resolution for EMC protection.
- Available for automatic mounting in tape and real package.
- The products do not contain lead and support lead-free soldering.

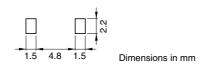
APPLICATIONS

LCD-TVs, PDP-TVs, LCD displays, DVD recorders, HDDs, DSCs, etc.

SHAPES AND DIMENSIONS



RECOMMENDED PC BOARD PATTERN





ELECTRICAL CHARACTERISTICS

	Inductance	Inductance	Test frequency	DC resistance	Rated current(A)*			
Part No.	(µH)	tolerance(%)	(kHz)	$(m\Omega)$	Based on inductance change	Based on temperature rise		
SLF7055T-1R5N4R0-3PF	1.5	±30	100	17.4±30%	6.2	4		
SLF7055T-2R2N3R5-3PF	2.2	±30	100	21.7±30%	5.3	3.5		
SLF7055T-3R3N3R3-3PF	3.3	±30	100	24±30%	4.3	3.3		
SLF7055T-4R7N3R1-3PF	4.7	±30	100	28±30%	3.6	3.1		
SLF7055T-6R8N2R8-3PF	6.8	±30	100	34±30%	3	2.8		
SLF7055T-100M2R5-3PF	10	±20	100	39.1±20%	2.6	2.5		
SLF7055T-150M2R1-3PF	15	±20	100	50.8±20%	2.1	2.2		
SLF7055T-220M1R7-3PF	22	±20	100	64.3±20%	1.7	2		

^{*} Rated current: Value obtained when current flows and the temperature has risen to 30°C or when DC current flows and the nominal value of inductance has fallen by 10%, whichever is smaller.

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[•] Operating temperature range: -40 to +105°C (Including self-temperature rise)



Conformity to RoHS Directive

SLF Series SLF10145

FEATURES

- The SLF series are characterized by low profile, low DC resistance, and high current handling capacities.
- Because they are magnetically shielded, these parts can be used in high-density mounting configurations.
- Flat bottom surface ensures secure, reliable mounting.
- Provided in embossed carrier tape packaging for use with automatic mounting machines.

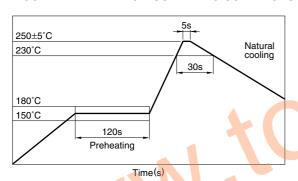
APPLICATIONS

Portable telephones, personal computers, hard disk drives, and other electronic equipment.

SPECIFICATIONS

Operating temperature range	−40 to +105°C
Operating temperature range	[Including self-temperature rise]
Storage temperature range	–40 to +105°C[Unit of products]

RECOMMENDED REFLOW SOLDERING CONDITIONS



PRODUCT IDENTIFICATION

SLF	10145	T-	220	М	1R9	- PF
(1)	(2)	(3)	(4)	(5)	(6)	(7)

- (1) Series name
- (2) Dimensions

10145	10.1×10.1×4.5mm (L×W×T)

(3) Packaging style

,		•	_	•	
	T				Taping(reel)

(4) Inductance value

100	10μΗ	
101	100uH	

(5) Inductance tolerance

М	±20%	Í	T		
N	±30%		7		

(6) Rated current

1R9	1.9A	
R79	0.79A	

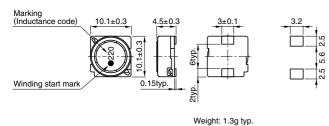
(7) Lead-free compatible product

PF Lead-free compatible product		
	PF	Lead-free compatible product

Packaging style	Quantity
Taping	500 pieces/reel

[•] Conformity to RoHS Directive: This means that, in conformity with EU Directive 2002/95/EC, lead, cadmium, mercury, hexavalent chromium, and specific bromine-based flame retardants, PBB and PBDE, have not been used, except for exempted applications.

Dimensions in mm

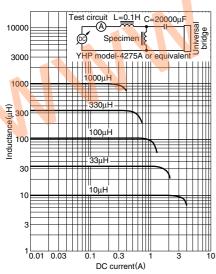




ELECTRICAL CHARACTERISTICS

Inductance	la di rata a a	Took from the same	DC resistance	Rated current (A)* ma	х.	
mductance (μH)	Inductance tolerance	Test frequency L (kHz)	DC resistance (Ω)±20%	Based on inductance change	Based on temperature rise	Part No.
3.3	±30%	1	0.0161	4.9	3.7	SLF10145T-3R3N3R7-PF
5.6	±20%	1	0.0220	3.8	3.2	SLF10145T-5R6M3R2-PF
10	±20%	1	0.0364	3	2.5	SLF10145T-100M2R5-PF
15	±20%	1	0.0472	2.4	2.2	SLF10145T-150M2R2-PF
22	±20%	1	0.0591	2.1	1.9	SLF10145T-220M1R9-PF
33	±20%	1	0.0815	1.6	1.7	SLF10145T-330M1R6-PF
47	±20%	1	0.1	1.4	1.5	SLF10145T-470M1R4-PF
68	±20%	1	0.14	1.2	1.3	SLF10145T-680M1R2-PF
100	±20%	1	0.2	1	1.1	SLF10145T-101M1R0-PF
150	±20%	1	0.35	0.79	0.81	SLF10145T-151MR79-PF
220	±20%	1	0.47	0.65	0.7	SLF10145T-221MR65-PF
330	±20%	1	0.68	0.54	0.58	SLF10145T-331MR54-PF
470	±20%	1	1.03	0.47	0.47	SLF10145T-471MR47-PF
680	±20%	1	1.6	0.38	0.38	SLF10145T-681MR38-PF
1000	±20%	1	2.8	0.32	0.29	SLF10145T-102MR29-PF
1500	±20%	1	3.4	0.22	0.26	SLF10145T-152MR22-PF

^{*} Rated current: Value obtained when current flows and the temperature has risen to 30°C or when DC current flows and the nominal value of inductance has fallen by 10%, whichever is smaller.



Test equipment L: 4194A IMPEDANCE/GAIN-PHASE ANALYZER HP, or equivalent (Measured at 1kHz/0.5V)
 Rdc:MATSUSHITA VP-2941A DIGITAL MILLIOHM METER, or equivalent

[•] All specifications are subject to change without notice.



Conformity to RoHS Directive

SLF Series SLF10165

FEATURES

· Miniature size

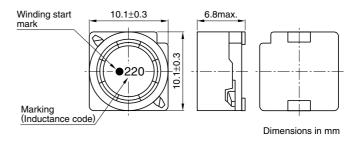
Mount area: 10.1×10.1mm Height: 6.8mm max.

- Generic use for portable DC to DC converter line.
- High magnetic shield construction should actualize high resolution for EMC protection.
- Available for automatic mounting in tape and real package.
- The products do not contain lead and support lead-free soldering.

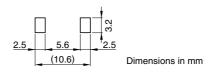
APPLICATIONS

TVs, PDPs, notebook PCs, portable DVD players, terminal adapters, amusement games, LCD monitors, digital audios, etc.

SHAPES AND DIMENSIONS



RECOMMENDED PC BOARD PATTERN





ELECTRICAL CHARACTERISTICS

Part No.	Inductance (µH)	Inductance tolerance(%)	Test frequency (kHz)	DC resistance (mΩ)	Rated current(A)* Based on inductance change typ.	Based on temperature rise typ.
SLF10165T-1R5N6R83PF	1.5	±30	100	6.7±30%	10.7	6.8
SLF10165T-2R2N6R33PF	2.2	±30	100	8.4±30%	8.9	6.3
SLF10165T-3R3N5R83PF	3.3	±30	100	9.6±30%	7.8	5.8
SLF10165T-4R7N4R73PF	4.7	±30	100	11.7±30%	6.1	4.7
SLF10165T-6R8N4R33PF	6.8	±30	100	14±30%	4.6	4.3
SLF10165T-100M3R83PF	10	±20	100	18.5±20%	4.1	3.8
SLF10165T-150M3R13PF	15	±20	100	27±20%	3.1	3.1
SLF10165T-220M2R43PF	22	±20	100	44.8±20%	2.7	2.4

^{*} Rated current: Value obtained when current flows and the temperature has risen to 30°C or when DC current flows and the nominal value of inductance has fallen by 10%, whichever is smaller.

• Conformity to RoHS Directive: This means that, in conformity with EU Directive 2002/95/EC, lead, cadmium, mercury, hexavalent chromium, and specific bromine-based flame retardants, PBB and PBDE, have not been used, except for exempted applications.

[•] Operating temperature range: -40 to +105°C (Including self-temperature rise)



Conformity to RoHS Directive

SLF Series SLF12555

FEATURES

- The SLF series are characterized by low profile, low DC resistance, and high current handling capacities.
- Because they are magnetically shielded, these parts can be used in high-density mounting configurations.
- Flat bottom surface ensures secure, reliable mounting.
- Provided in embossed carrier tape packaging for use with automatic mounting machines.

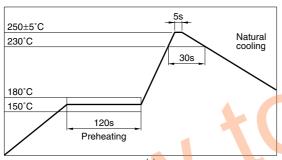
APPLICATIONS

Portable telephones, personal computers, hard disk drives, and other electronic equipment.

SPECIFICATIONS

Operating temperature range	–40 to +105°C
Operating temperature range	[Including self-temperature rise]
Storage temperature range	-40 to +105°C[Unit of products]

RECOMMENDED REFLOW SOLDERING CONDITIONS



Time(s)

PRODUCT IDENTIFICATION

SLF	12555	T-	220	М	2R3	- PF
(1)	(2)	(3)	(4)	(5)	(6)	(7)

- (1) Series name
- (2) Dimensions

12.5×12.5×5.5mm (L×W×T)

(3) Packaging style

,	_	_	•		
Т				Taping(reel)	

(4) Inductance value

6R0	6μΗ	
100	10uH	

(5) Inductance tolerance

M	±20%	4		abla			
N	±30%			1 7	\overline{z}		

(6) Rated current

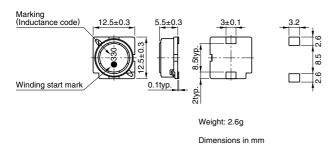
1R9	1.9A	
R88	0.88A	

(7) Lead-free compatible product

DE	Load-trop compatible product
	Lead-free compatible product

Packaging style	Quantity		
Taping	500 pieces/reel		

[•] Conformity to RoHS Directive: This means that, in conformity with EU Directive 2002/95/EC, lead, cadmium, mercury, hexavalent chromium, and specific bromine-based flame retardants, PBB and PBDE, have not been used, except for exempted applications.

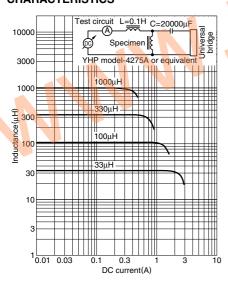




ELECTRICAL CHARACTERISTICS

la di rata a a a	la di rata a a	Took from the part	DC resistance	Rated current (A)* ma		
Inductance (µH)	Inductance tolerance	Test frequency L (kHz)		Based on	Based on	Part No.
(μπ)	tolerance	L (KIIZ)	(Ω)±20%	inductance change	temperature rise	
6	±30%	1	0.0164	3.6	4.9	SLF12555T-6R0N3R6-PF
10	±20%	1	0.0215	3.4	4.3	SLF12555T-100M3R4-PF
15	±20%	1	0.0259	2.8	3.9	SLF12555T-150M2R8-PF
22	±20%	1	0.0338	2.3	3.4	SLF12555T-220M2R3-PF
33	±20%	1	0.0415	1.9	3.1	SLF12555T-330M1R9-PF
47	±20%	1	0.0618	1.6	2.5	SLF12555T-470M1R6-PF
68	±20%	1	0.0832	1.3	2.2	SLF12555T-680M1R3-PF
100	±20%	1	0.117	1.1	1.8	SLF12555T-101M1R1-PF
150	±20%	1	0.19	0.88	1.4	SLF12555T-151MR88-PF
220	±20%	1	0.27	0.72	1.2	SLF12555T-221MR72-PF
330	±20%	1	0.41	0.59	1	SLF12555T-331MR59-PF
470	±20%	1	0.52	0.49	0.88	SLF12555T-471MR49-PF
680	±20%	1	0.76	0.43	0.73	SLF12555T-681MR43-PF
1000	±20%	1	1.12	0.34	0.6	SLF12555T-102MR34-PF
1500	±20%	1	1.73	0.29	0.48	SLF12555T-152MR29-PF

^{*} Rated current: Value obtained when current flows and the temperature has risen to 30°C or when DC current flows and the nominal value of inductance has fallen by 10%, whichever is smaller.



Test equipment L: 4194A IMPEDANCE/GAIN-PHASE ANALYZER HP, or equivalent (Measured at 1kHz/0.5V)
 Rdc:MATSUSHITA VP-2941A DIGITAL MILLIOHM METER, or equivalent

[•] All specifications are subject to change without notice.



Conformity to RoHS Directive

SLF Series SLF12565

FEATURES

- The SLF series are characterized by low profile, low DC resistance, and high current handling capacities.
- Because they are magnetically shielded, these parts can be used in high-density mounting configurations.
- Flat bottom surface ensures secure, reliable mounting.
- Provided in embossed carrier tape packaging for use with automatic mounting machines.

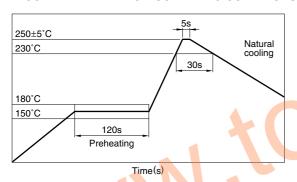
APPLICATIONS

Portable telephones, personal computers, hard disk drives, and other electronic equipment.

SPECIFICATIONS

Operating temperature range	–40 to +105°C
Operating temperature range	[Including self-temperature rise]
Storage temperature range	-40 to +105°C[Unit of products]

RECOMMENDED REFLOW SOLDERING CONDITIONS



PRODUCT IDENTIFICATION

SLF	12565	T-	220	М	3R5	- PF
(1)	(2)	(3)	(4)	(5)	(6)	(7)

- (1) Series name
- (2) Dimensions

(3) Packaging style

•		•	•	•	
-	Т				Taping(reel)

(4) Inductance value

2R0	2μΗ	
100	10uH	

(5) Inductance tolerance

M	±20%	A	7		
N	±30%		1/	\mathbb{Z}	

(6) Rated current

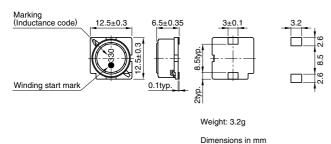
1R6	1.6A	
3R5	3.5A	

(7) Lead-free compatible product

PF Lead-free compatible product		
	PF	Lead-free compatible product

Packaging style	Quantity
Taping	500 pieces/reel

[•] Conformity to RoHS Directive: This means that, in conformity with EU Directive 2002/95/EC, lead, cadmium, mercury, hexavalent chromium, and specific bromine-based flame retardants, PBB and PBDE, have not been used, except for exempted applications.

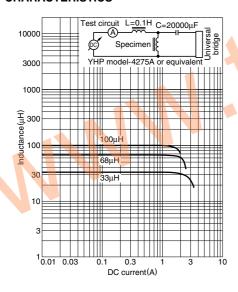




ELECTRICAL CHARACTERISTICS

Inductance	Inductance	Toot fraguancy	DC resistance	Rated current (A)* ma		
(μH)	tolerance	Test frequency L (kHz)	$(\Omega)\pm20\%$	Based on inductance change	Based on temperature rise	Part No.
2	±30%	1	0.0117	10	6.2	SLF12565T-2R0N6R2-PF
4.2	±30%	1	0.015	7.3	5.5	SLF12565T-4R2N5R5-PF
7	±30%	1	0.0177	5.7	5	SLF12565T-7R0N5R0-PF
10	±20%	1	0.0202	5	4.8	SLF12565T-100M4R8-PF
15	±20%	1	0.0237	4.2	4.4	SLF12565T-150M4R2-PF
22	±20%	1	0.0316	3.5	3.8	SLF12565T-220M3R5-PF
33	±20%	1	0.0406	2.8	3.4	SLF12565T-330M2R8-PF
47	±20%	1	0.0578	2.4	2.8	SLF12565T-470M2R4-PF
68	±20%	1	0.0787	2	2.4	SLF12565T-680M2R0-PF
100	±20%	1	0.123	1.6	1.9	SLF12565T-101M1R6-PF
220	±20%	1	0.273	1	1.2	SLF12565T-221M1R0-PF

^{*} Rated current: Value obtained when current flows and the temperature has risen to 40°C or when DC current flows and the nominal value of inductance has fallen by 10%, whichever is smaller.



Test equipment L: 4194A IMPEDANCE/GAIN-PHASE ANALYZER HP or equivalent (Measured at 1kHz/0.5V)
 Rdc:MATSUSHITA VP-2941A DIGITAL MILLIOHM METER, or equivalent

[•] All specifications are subject to change without notice.



Conformity to RoHS Directive

SLF Series SLF12575

FEATURES

- The SLF series are characterized by low profile, low DC resistance, and high current handling capacities.
- Because they are magnetically shielded, these parts can be used in high-density mounting configurations.
- Flat bottom surface ensures secure, reliable mounting.
- Provided in embossed carrier tape packaging for use with automatic mounting machines.

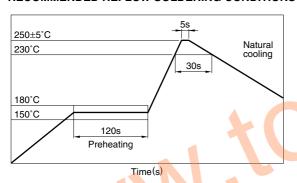
APPLICATIONS

Portable telephones, personal computers, hard disk drives, and other electronic equipment.

SPECIFICATIONS

Operating temperature range	-40 to +105°C
Operating temperature range	[Including self-temperature rise]
Storage temperature range	-40 to +105°C[Unit of products]

RECOMMENDED REFLOW SOLDERING CONDITIONS



PRODUCT IDENTIFICATION

SLF	12575	T-	220	М	3R2	- PF
(1)	(2)	(3)	(4)	(5)	(6)	(7)

- (1) Series name
- (2) Dimensions

12575	12.5×12.5×7.5mm (L×W×T)

(3) Packaging style

,	_	_	•		
Т				Taping(reel)	

(4) Inductance value

3R3	3.3μΗ	
100	10uH	

(5) Inductance tolerance

•				1	
M	±20%			Z,	
N	+30%			\mathcal{I}	

(6) Rated current

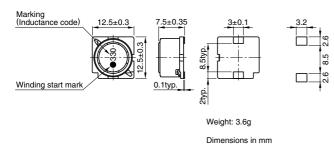
1R9	1.9A	
3R2	3.2A	

(7) Lead-free compatible product

PF Lead-free compatible product		
	PF	Lead-free compatible product
		PF

Packaging style	Quantity
Taping	500 pieces/reel

[•] Conformity to RoHS Directive: This means that, in conformity with EU Directive 2002/95/EC, lead, cadmium, mercury, hexavalent chromium, and specific bromine-based flame retardants, PBB and PBDE, have not been used, except for exempted applications.

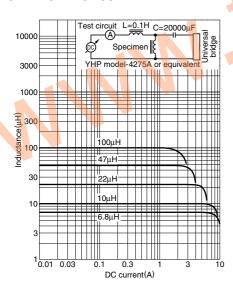




ELECTRICAL CHARACTERISTICS

Inductance	Inductance	Toot from Jones	DC resistance	Rated current (A)* max	X.	
(μH)	tolerance	Test frequency L (kHz)	$(\Omega)\pm20\%$	Based on inductance change	Based on temperature rise	Part No.
1.2	±30%	1	0.0069	13	8.2	SLF12575T-1R2N8R2-PF
2.7	±30%	1	0.0094	10	7	SLF12575T-2R7N7R0-PF
3.9	±30%	1	0.0104	9	6.7	SLF12575T-3R9N6R7-PF
5.6	±30%	1	0.0116	7.8	6.3	SLF12575T-5R6N6R3-PF
6.8	±30%	1	0.0131	7.2	5.9	SLF12575T-6R8N5R9-PF
10	±20%	1	0.0156	5.5	5.4	SLF12575T-100M5R4-PF
15	±20%	1	0.0184	4.7	5	SLF12575T-150M4R7-PF
22	±20%	1	0.0263	4	4	SLF12575T-220M4R0-PF
33	±20%	1	0.0395	3.2	3.4	SLF12575T-330M3R2-PF
47	±20%	1	0.0528	2.7	3	SLF12575T-470M2R7-PF
68	±20%	1	0.0778	2	2.4	SLF1257 <mark>5T</mark> -680M2R0-PF
100	±20%	1	0.125	1.9	1.9	SLF12575T-101M1R9-PF
150	±20%	1	0.175	1.5	1.6	SLF12575T-151M1R5-PF
220	±20%	1	0.258	1.3	1.3	SLF12575T-221M1R3-PF

^{*} Rated current: Value obtained when current flows and the temperature has risen to 40°C or when DC current flows and the nominal value of inductance has fallen by 10%, whichever is smaller.



Test equipment L: 4194A IMPEDANCE/GAIN-PHASE ANALYZER HP, or equivalent (Measured at 1kHz/0.5V)
 Rdc:MATSUSHITA VP-2941A DIGITAL MILLIOHM METER, or equivalent

[•] All specifications are subject to change without notice.