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.

Inductors for Power Circuits
Wound/STD • Magnetic Shielded

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.

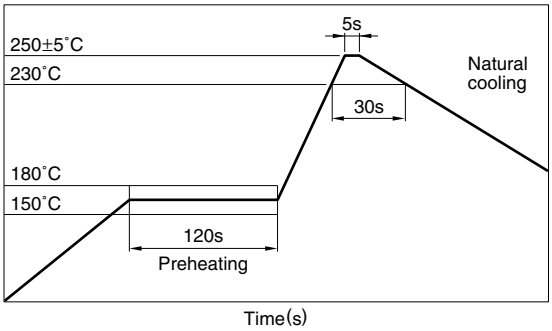
APPLICATIONS

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	4.7μH
100	10μH

(5) Inductance tolerance

M	±20%

(6) Rated current

1R5	1.5A
R88	0.88A

(7) Lead-free compatible product

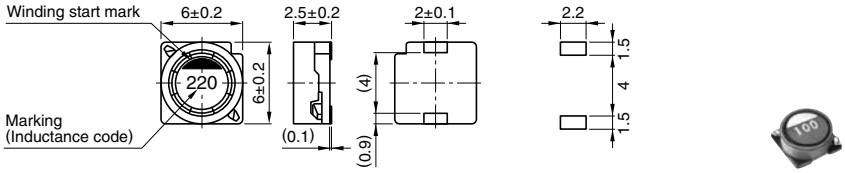
PF	Lead-free compatible product

PACKAGING STYLE AND QUANTITIES

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.

SHAPES AND DIMENSIONS/RECOMMENDED PC BOARD PATTERN



Weight: 0.3g typ.

Dimensions in mm

ELECTRICAL CHARACTERISTICS

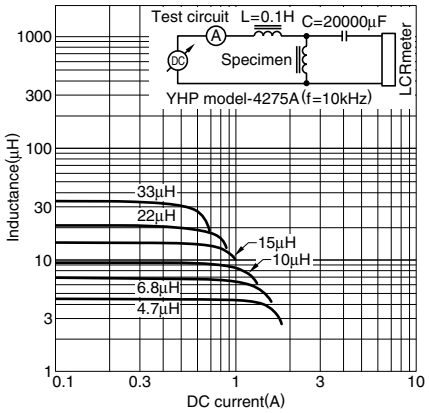
Inductance (μH)	Inductance tolerance	Test frequency L (kHz)	DC resistance (Ω)±20%	Rated current (A)*		Part No.
				Based on inductance change	Based on temperature rise	
4.7	±20%	100	0.0306	1.5max.	1.8typ.	SLF6025T-4R7M1R5-PF
6.8	±20%	100	0.0442	1.3max.	1.5typ.	SLF6025T-6R8M1R3-PF
10	±20%	100	0.0573	1max.	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

TYPICAL ELECTRICAL CHARACTERISTICS

INDUCTANCE CHANGE vs. DC SUPERPOSITION CHARACTERISTICS



Inductors for Power Circuits
Wound/STD • Magnetic Shielded

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.

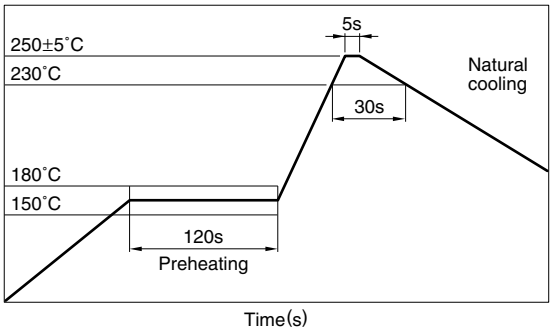
APPLICATIONS

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	4.7μH
100	10μH

(5) Inductance tolerance

M	±20%

(6) Rated current

1R6	1.6A
R77	0.77A

(7) Lead-free compatible product

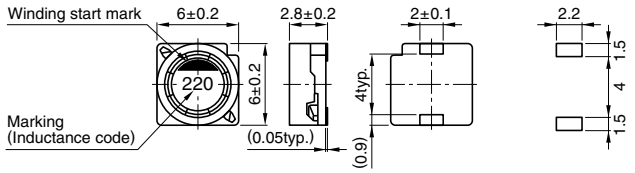
PF	Lead-free compatible product

PACKAGING STYLE AND QUANTITIES

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.

SHAPES AND DIMENSIONS/RECOMMENDED PC BOARD PATTERN



Weight: 0.3g typ.

Dimensions in mm

ELECTRICAL CHARACTERISTICS

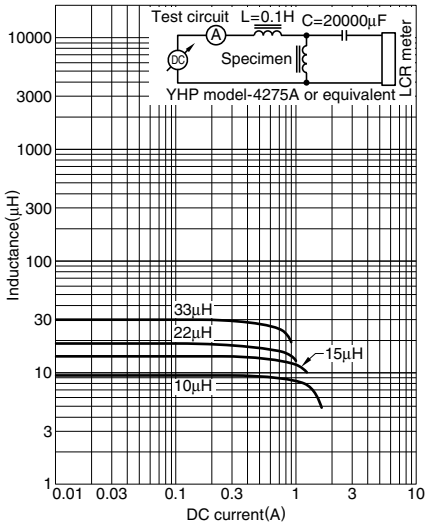
Inductance (µH)	Inductance tolerance	Test frequency L (kHz)	DC resistance (Ω)±20%	Rated current (A)*		Part No.
				Based on inductance change	Based on temperature rise	
4.7	±20%	100	0.0284	1.6max.	2.5typ.	SLF6028T-4R7M1R6-PF
6.8	±20%	100	0.0354	1.5max.	2.2typ.	SLF6028T-6R8M1R5-PF
10	±20%	100	0.0532	1.3max.	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

TYPICAL ELECTRICAL CHARACTERISTICS

INDUCTANCE CHANGE vs. DC SUPERPOSITION CHARACTERISTICS



Inductors for Power Circuits
Wound/STD • Magnetic Shielded

Conformity to RoHS Directive

SLF Series SLF6045

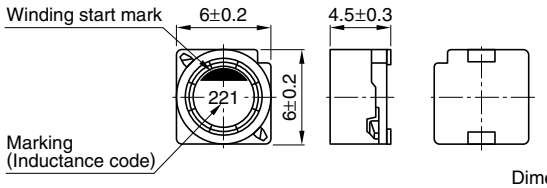
FEATURES

- 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

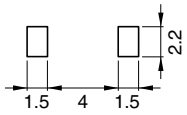
LCD-TVs, PDP-TVs, LCD displays, DVD recorders, HDDs, DSCs, etc.

SHAPES AND DIMENSIONS



Dimensions in mm

RECOMMENDED PC BOARD PATTERN



Dimensions in mm

ELECTRICAL CHARACTERISTICS

Part No.	Inductance (μH)	Inductance tolerance(%)	Test frequency (kHz)	DC resistance (mΩ)	Rated current(A)*	
					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.

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

- 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.

Inductors for Power Circuits
Wound/STD • Magnetic Shielded

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.

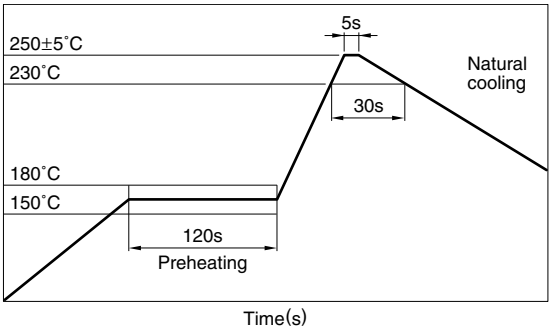
APPLICATIONS

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

SPECIFICATIONS

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

RECOMMENDED REFLOW SOLDERING CONDITIONS



PRODUCT IDENTIFICATION

SLF	7032	T-	220	M	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)

(4) Inductance value

3R3	3.3μH
100	10μH

(5) Inductance tolerance

M	±20%

(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

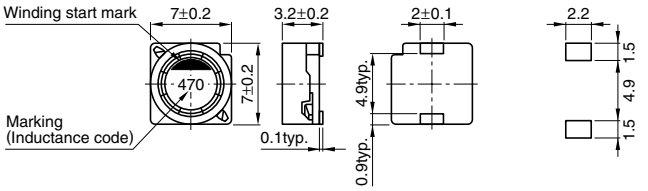
PF	Lead-free compatible product

PACKAGING STYLE AND QUANTITIES

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.

SHAPES AND DIMENSIONS/RECOMMENDED PC BOARD PATTERN



Weight: 0.4g

Dimensions in mm

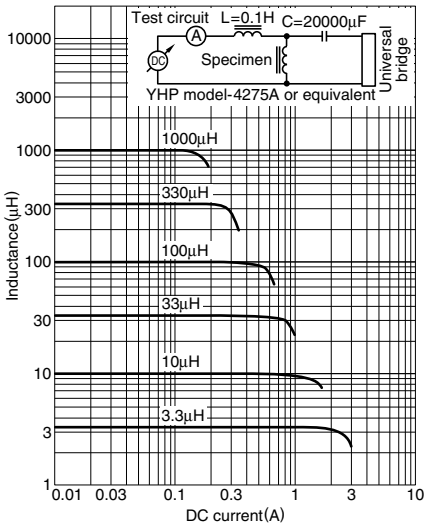
ELECTRICAL CHARACTERISTICS

Inductance (μH)	Inductance tolerance	Test frequency L (kHz)	DC resistance (Ω)±20%	Rated current (A)max.	Part No.
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

TYPICAL ELECTRICAL CHARACTERISTICS

INDUCTANCE CHANGE vs. DC SUPERPOSITION CHARACTERISTICS



Inductors for Power Circuits
Wound/STD • Magnetic Shielded

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.

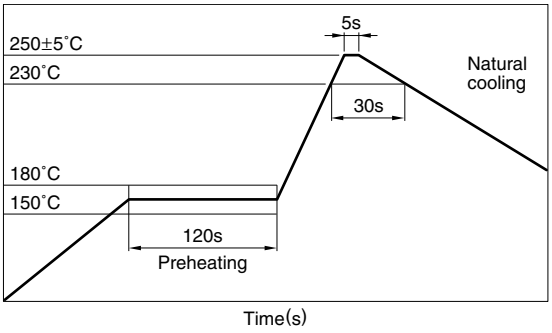
APPLICATIONS

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

SPECIFICATIONS

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

RECOMMENDED REFLOW SOLDERING CONDITIONS



PRODUCT IDENTIFICATION

SLF	7045	T-	220	M	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	3.3μH
100	10μH

(5) Inductance tolerance

M	±20%

(6) Rated current

2R5	2.5A
R90	0.90A

(7) Lead-free compatible product

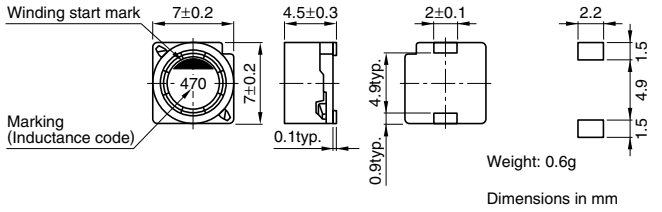
PF	Lead-free compatible product

PACKAGING STYLE AND QUANTITIES

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.

SHAPES AND DIMENSIONS/RECOMMENDED PC BOARD PATTERN



ELECTRICAL CHARACTERISTICS

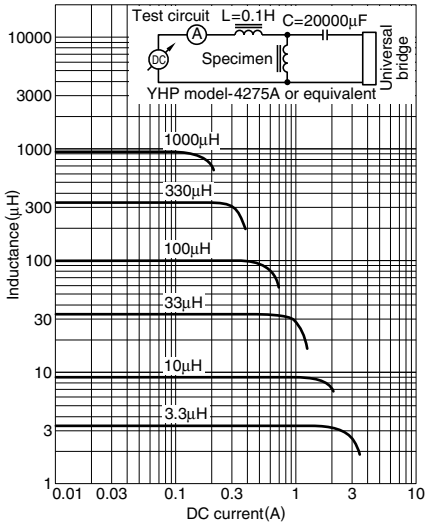
Inductance (μH)	Inductance tolerance	Test frequency L (kHz)	DC resistance (Ω)±20%	Rated current(A)* max.		Part No.
				Based on inductance change	Based on temperature rise	
3.3	±20%	100	0.02	2.5	2.3	SLF7045T-3R3M2R5-PF
4.7	±20%	100	0.03	2	2.1	SLF7045T-4R7M2R0-PF
6.8	±20%	100	0.039	1.7	1.74	SLF7045T-6R8M1R7-PF
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-101MR50-PF
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

TYPICAL ELECTRICAL CHARACTERISTICS

INDUCTANCE CHANGE vs. DC SUPERPOSITION CHARACTERISTICS



Inductors for Power Circuits
Wound/STD • Magnetic Shielded

Conformity to RoHS Directive

SLF Series SLF7055

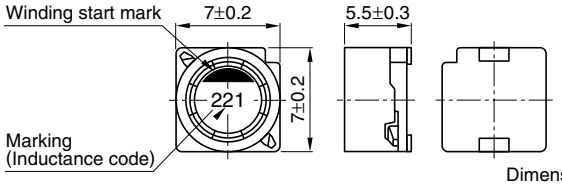
FEATURES

- 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

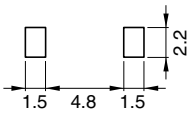
LCD-TVs, PDP-TVs, LCD displays, DVD recorders, HDDs, DSCs, etc.

SHAPES AND DIMENSIONS



Dimensions in mm

RECOMMENDED PC BOARD PATTERN



Dimensions in mm

ELECTRICAL CHARACTERISTICS

Part No.	Inductance (µH)	Inductance tolerance(%)	Test frequency (kHz)	DC resistance (mΩ)	Rated current(A)*	
					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.

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

- 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.

Inductors for Power Circuits
Wound/STD • Magnetic Shielded

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.

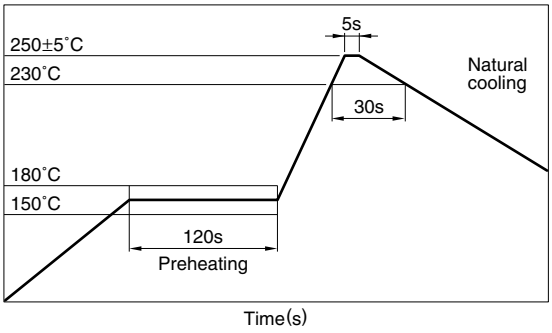
APPLICATIONS

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

SPECIFICATIONS

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

RECOMMENDED REFLOW SOLDERING CONDITIONS



PRODUCT IDENTIFICATION

SLF	10145	T-	220	M	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	10μH
101	100μH

(5) Inductance tolerance

M	±20%
N	±30%

(6) Rated current

1R9	1.9A
R79	0.79A

(7) Lead-free compatible product

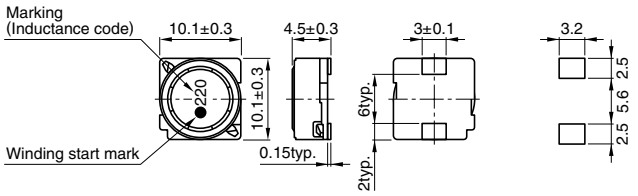
PF	Lead-free compatible product

PACKAGING STYLE AND QUANTITIES

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.

SHAPES AND DIMENSIONS/RECOMMENDED PC BOARD PATTERN



Weight: 1.3g typ.

Dimensions in mm

ELECTRICAL CHARACTERISTICS

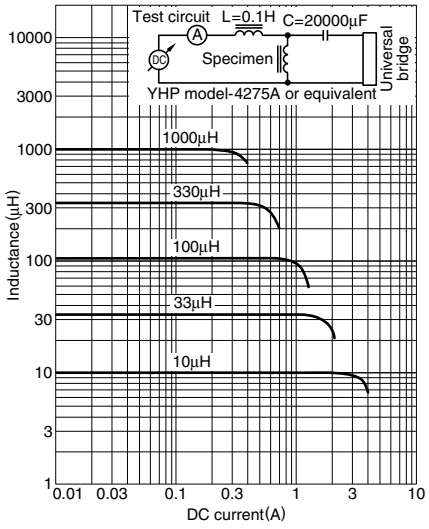
Inductance (μH)	Inductance tolerance	Test frequency L (kHz)	DC resistance (Ω)±20%	Rated current (A)* max.		Part No.
				Based on inductance change	Based on temperature rise	
3.3	±30%	1	0.0161	4.9	3.7	SLF10145T-3R3N3R7-PF
5.6	±20%	1	0.0220	3.8	3.2	SLF10145T-5R6M3R2-PF
10	±20%	1	0.0364	3	2.5	SLF10145T-100M2R5-PF
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

TYPICAL ELECTRICAL CHARACTERISTICS

INDUCTANCE CHANGE vs. DC SUPERPOSITION CHARACTERISTICS



Inductors for Power Circuits
Wound/STD • Magnetic Shielded

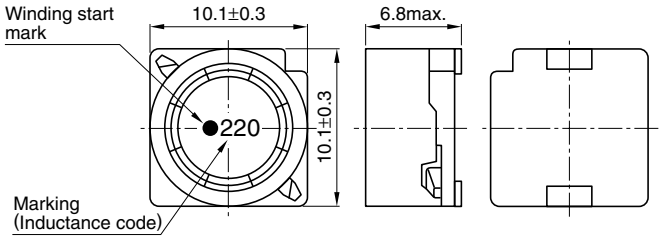
Conformity to RoHS Directive

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.

SHAPES AND DIMENSIONS

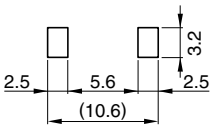


Dimensions in mm

APPLICATIONS

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

RECOMMENDED PC BOARD PATTERN



Dimensions in mm

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.

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

- 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.

Inductors for Power Circuits
Wound/STD • Magnetic Shielded

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.

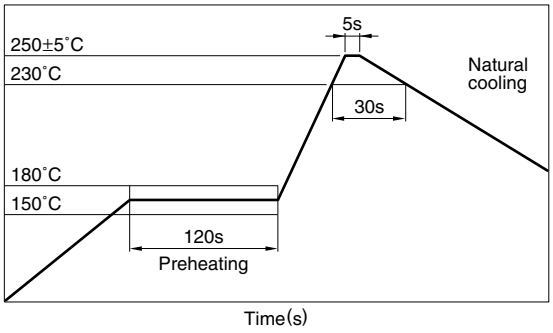
APPLICATIONS

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

SPECIFICATIONS

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

RECOMMENDED REFLOW SOLDERING CONDITIONS



PRODUCT IDENTIFICATION

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

(1) Series name

(2) Dimensions

12555	12.5×12.5×5.5mm (L×W×T)

(3) Packaging style

T	Taping(reel)

(4) Inductance value

6R0	6μH
100	10μH

(5) Inductance tolerance

M	±20%
N	±30%

(6) Rated current

1R9	1.9A
R88	0.88A

(7) Lead-free compatible product

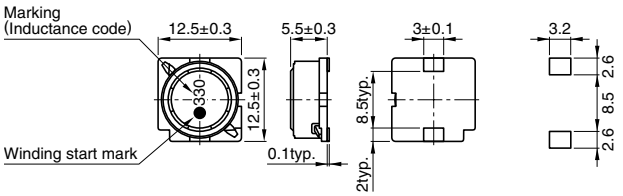
PF	Lead-free compatible product

PACKAGING STYLE AND QUANTITIES

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.

SHAPES AND DIMENSIONS/RECOMMENDED PC BOARD PATTERN



Weight: 2.6g

Dimensions in mm

ELECTRICAL CHARACTERISTICS

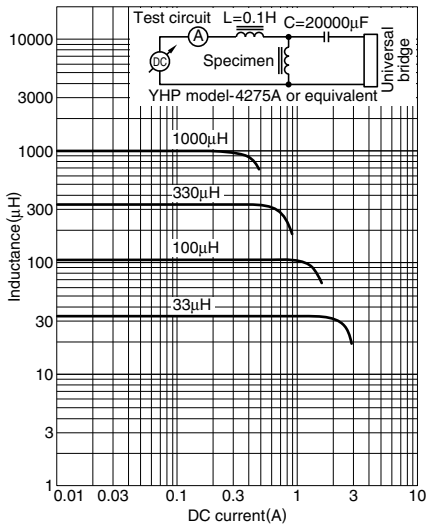
Inductance (µH)	Inductance tolerance	Test frequency L (kHz)	DC resistance (Ω)±20%	Rated current (A)* max.		Part No.
				Based on inductance change	Based on temperature rise	
6	±30%	1	0.0164	3.6	4.9	SLF12555T-6R0N3R6-PF
10	±20%	1	0.0215	3.4	4.3	SLF12555T-100M3R4-PF
15	±20%	1	0.0259	2.8	3.9	SLF12555T-150M2R8-PF
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

TYPICAL ELECTRICAL CHARACTERISTICS

INDUCTANCE CHANGE vs. DC SUPERPOSITION CHARACTERISTICS



- All specifications are subject to change without notice.

Inductors for Power Circuits
Wound/STD • Magnetic Shielded

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.

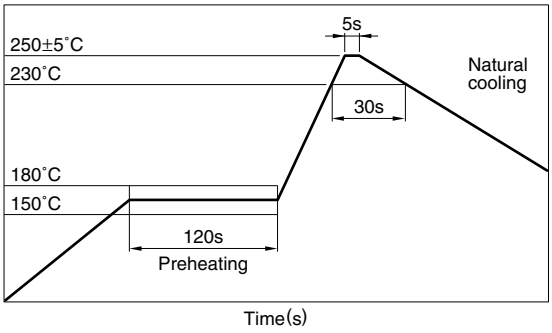
APPLICATIONS

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

SPECIFICATIONS

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

RECOMMENDED REFLOW SOLDERING CONDITIONS



PRODUCT IDENTIFICATION

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

(1) Series name

(2) Dimensions

12565	12.5×12.5×6.5mm (L×W×T)

(3) Packaging style

T	Taping(reel)

(4) Inductance value

2R0	2μH
100	10μH

(5) Inductance tolerance

M	±20%
N	±30%

(6) Rated current

1R6	1.6A
3R5	3.5A

(7) Lead-free compatible product

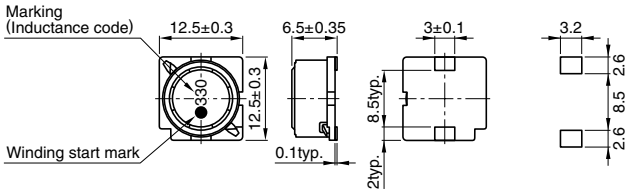
PF	Lead-free compatible product

PACKAGING STYLE AND QUANTITIES

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.

SHAPES AND DIMENSIONS/RECOMMENDED PC BOARD PATTERN



Weight: 3.2g

Dimensions in mm

ELECTRICAL CHARACTERISTICS

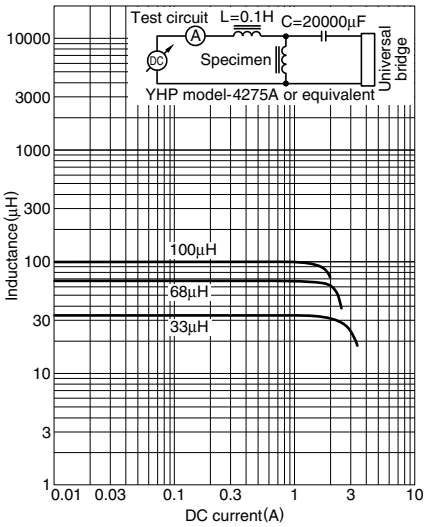
Inductance (µH)	Inductance tolerance	Test frequency L (kHz)	DC resistance (Ω)±20%	Rated current (A)* max.		Part No.
				Based on inductance change	Based on temperature rise	
2	±30%	1	0.0117	10	6.2	SLF12565T-2R0N6R2-PF
4.2	±30%	1	0.015	7.3	5.5	SLF12565T-4R2N5R5-PF
7	±30%	1	0.0177	5.7	5	SLF12565T-7R0N5R0-PF
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

TYPICAL ELECTRICAL CHARACTERISTICS

INDUCTANCE CHANGE vs. DC SUPERPOSITION CHARACTERISTICS



- All specifications are subject to change without notice.

Inductors for Power Circuits
Wound/STD • Magnetic Shielded

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.

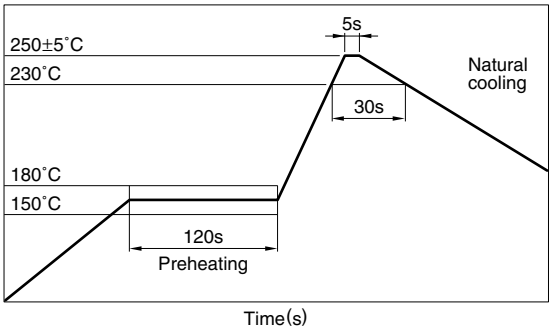
APPLICATIONS

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

SPECIFICATIONS

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

RECOMMENDED REFLOW SOLDERING CONDITIONS



PRODUCT IDENTIFICATION

SLF	12575	T-	220	M	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

T	Taping(reel)

(4) Inductance value

3R3	3.3μH
100	10μH

(5) Inductance tolerance

M	±20%
N	±30%

(6) Rated current

1R9	1.9A
3R2	3.2A

(7) Lead-free compatible product

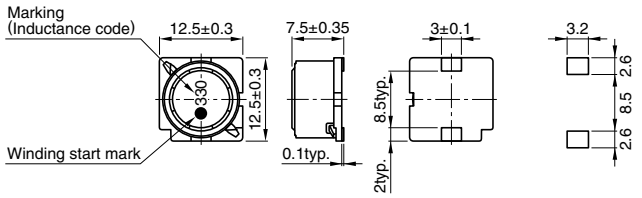
PF	Lead-free compatible product

PACKAGING STYLE AND QUANTITIES

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.

SHAPES AND DIMENSIONS/RECOMMENDED PC BOARD PATTERN



Weight: 3.6g

Dimensions in mm

ELECTRICAL CHARACTERISTICS

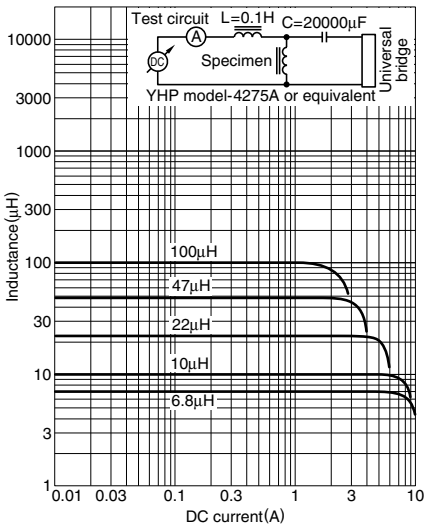
Inductance (μH)	Inductance tolerance	Test frequency L (kHz)	DC resistance (Ω)±20%	Rated current (A)* max.		Part No.
				Based on inductance change	Based on temperature rise	
1.2	±30%	1	0.0069	13	8.2	SLF12575T-1R2N8R2-PF
2.7	±30%	1	0.0094	10	7	SLF12575T-2R7N7R0-PF
3.9	±30%	1	0.0104	9	6.7	SLF12575T-3R9N6R7-PF
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	SLF12575T-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

TYPICAL ELECTRICAL CHARACTERISTICS

INDUCTANCE CHANGE vs. DC SUPERPOSITION CHARACTERISTICS



- All specifications are subject to change without notice.

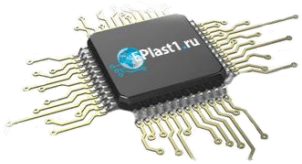
Компания «ЭлектроПласт» предлагает заключение долгосрочных отношений при поставках импортных электронных компонентов на взаимовыгодных условиях!

Наши преимущества:

- Оперативные поставки широкого спектра электронных компонентов отечественного и импортного производства напрямую от производителей и с крупнейших мировых складов;
- Поставка более 17-ти миллионов наименований электронных компонентов;
- Поставка сложных, дефицитных, либо снятых с производства позиций;
- Оперативные сроки поставки под заказ (от 5 рабочих дней);
- Экспресс доставка в любую точку России;
- Техническая поддержка проекта, помощь в подборе аналогов, поставка прототипов;
- Система менеджмента качества сертифицирована по Международному стандарту ISO 9001;
- Лицензия ФСБ на осуществление работ с использованием сведений, составляющих государственную тайну;
- Поставка специализированных компонентов (Xilinx, Altera, Analog Devices, Intersil, Interpoint, Microsemi, Aeroflex, Peregrine, Syfer, Eurofarad, Texas Instrument, Miteq, Cobham, E2V, MA-COM, Hittite, Mini-Circuits,General Dynamics и др.);

Помимо этого, одним из направлений компании «ЭлектроПласт» является направление «Источники питания». Мы предлагаем Вам помощь Конструкторского отдела:

- Подбор оптимального решения, техническое обоснование при выборе компонента;
- Подбор аналогов;
- Консультации по применению компонента;
- Поставка образцов и прототипов;
- Техническая поддержка проекта;
- Защита от снятия компонента с производства.



Как с нами связаться

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