

Inductors for Power Circuits

Wound Ferrite

SLFseries

SLF6025 SLF6028 SLF6045 SLF7032 SLF7045 SLF7055 SLF10145 SLF10165 SLF12555 SLF12565 SLF12575



protection circuit/device or providing backup circuits in your equipment.

REMINDERS FOR USING THESE PRODUCTS

Before using these products, be sure to request the delivery specifications.

SAFETY REMINDERS

Please pay sufficient attention to the warnings for safe designing when using these products.

∧ REMINDERS ○ The storage period is less than 6 months. Be sure to follow the storage conditions (Temperature: 5 to 30°C, Humidity: 10 to 75% RH or less). If the storage period elapses, the soldering of the terminal electrodes may deteriorate. O Do not use or store in locations where there are conditions such as gas corrosion (salt, acid, alkali, etc.). O Before soldering, be sure to preheat components. The preheating temperature should be set so that the temperature difference between the solder temperature and chip temperature does not exceed 150°C. O Soldering corrections after mounting should be within the range of the conditions determined in the specifications. If overheated, a short circuit, performance deterioration, or lifespan shortening may occur. O When embedding a printed circuit board where a chip is mounted to a set, be sure that residual stress is not given to the chip due to the overall distortion of the printed circuit board and partial distortion such as at screw tightening portions. Self heating (temperature increase) occurs when the power is turned ON, so the tolerance should be sufficient for the set thermal design. Carefully lay out the coil for the circuit board design of the non-magnetic shield type. A malfunction may occur due to magnetic interference. Use a wrist band to discharge static electricity in your body through the grounding wire. O Do not expose the products to magnets or magnetic fields. O not use for a purpose outside of the contents regulated in the delivery specifications. O The products listed on this catalog are intended for use in general electronic equipment (AV equipment, telecommunications) equipment, home appliances, amusement equipment, computer equipment, personal equipment, office equipment, measurement equipment, industrial robots) under a normal operation and use condition. The products are not designed or warranted to meet the requirements of the applications listed below, whose performance and/or quality require a more stringent level of safety or reliability, or whose failure, malfunction or trouble could cause serious damage to society, person or property. If you intend to use the products in the applications listed below or if you have special requirements exceeding the range or conditions set forth in the each catalog, please contact us. (8) Public information-processing equipment (1) Aerospace/Aviation equipment (2) Transportation equipment (cars, electric trains, ships, etc.) (9) Military equipment (3) Medical equipment (10) Electric heating apparatus, burning equipment (4) Power-generation control equipment (11) Disaster prevention/crime prevention equipment (5) Atomic energy-related equipment (12) Safety equipment (6) Seabed equipment (13) Other applications that are not considered general-purpose (7) Transportation control equipment applications When designing your equipment even for general-purpose applications, you are kindly requested to take into consideration securing

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Inductors for Power Circuits Wound Ferrite

Product compatible with RoHS directive Compatible with lead-free solders

Overview of the SLF Series

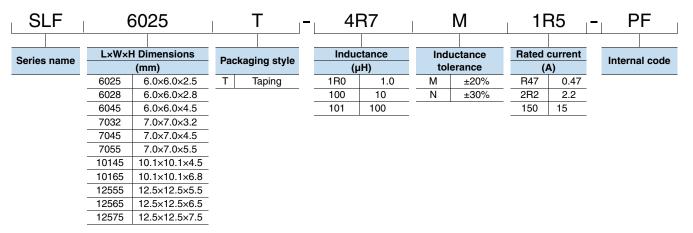
FEATURES

Magnetic shield type wound inductor for power circuits.
 Product lineup allows for various usages.

APPLICATION

Thin-screen TV, LCDs, AV equipment, gaming equipment, other electrical devices

PART NUMBER CONSTRUCTION



OPERATING TEMPERATURE RANGE, PACKAGE QUANTITY, PRODUCT WEIGHT

	Temperat	ure range		
Туре	Operating temperature*	Storage temperature**	Package quantity	Individual weight
	(° C)	(°C)	(pieces/reel)	(g)
SLF6025	-40 to +105	-40 to +105	1000	0.3
SLF6028	-40 to +105	-40 to +105	1000	0.3
SLF6045	-40 to +105	-40 to +105	1000	0.4
SLF7032	-40 to +105	-40 to +105	1000	0.4
SLF7045	-40 to +105	-40 to +105	1000	0.6
SLF7055	-40 to +105	-40 to +105	1000	0.8
SLF10145	-40 to +105	-40 to +105	500	1.3
SLF10165	-40 to +105	-40 to +105	500	1.9
SLF12555	-40 to +105	-40 to +105	500	2.6
SLF12565	-40 to +105	-40 to +105	500	3.2
SLF12575	-40 to +105	-40 to +105	500	3.6

* Operating temperature range includes self-temperature rise.

** The Storage temperature range is for after the circuit board is mounted.

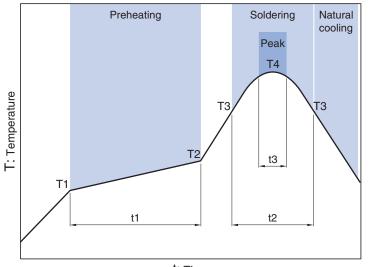
O RoHS Directive Compliant Product: See the following for more details related to RoHS Directive compliant products. http://www.tdk.co.jp/rohs/

All specifications are subject to change without notice.

INDUCTORS

Overview of the SLF Series

RECOMMENDED REFLOW PROFILE

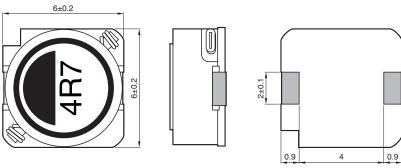


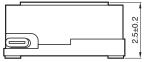
t: Time

Preheating	3		Soldering		Peak	
Temp.		Time	Temp.	Time	Temp.	Time
T1	T2	t1	Т3	t2	T4	t3
150°C	180°C	60 to 120s	230°C	30s	250°C	5s

SLF series SLF6025 Type

SHAPE & DIMENSIONS





Dimensions in mm

RECOMMENDED LAND PATTERN



Dimensions in mm

SLF series SLF6025 Type

ELECTRICAL CHARACTERISTICS

CHARACTERISTICS SPECIFICATION TABLE

	L me		L measuring DC resistance	Rated cur	rent(A)*	
-		frequency	(Ω) ±20%	max.		Part No.
(µH)	Tolerance	(kHz)	(52)=20/8	ldc1	ldc2	
4.7	±20%	100	0.0306	1.5	1.8	SLF6025T-4R7M1R5-PF
6.8	±20%	100	0.0442	1.3	1.5	SLF6025T-6R8M1R3-PF
10	±20%	100	0.0573	1	1.3	SLF6025T-100M1R0-PF
15	±20%	100	0.085	0.88	1.1	SLF6025T-150MR88-PF
22	±20%	100	0.122	0.73	0.94	SLF6025T-220MR73-PF
33	±20%	100	0.18	0.59	0.79	SLF6025T-330MR59-PF
47	±20%	100	0.24	0.48	0.67	SLF6025T-470MR48-PF
68	±20%	100	0.37	0.42	0.54	SLF6025T-680MR42-PF
100	±20%	100	0.5	0.33	0.47	SLF6025T-101MR33-PF

* Rated current: smaller value of either Idc1 or Idc2.

Idc1: When based on the inductance change rate (30% below the nominal value)

Idc2: When based on the temperature increase (Temperature increase of 25°C by self heating)

\bigcirc Measurement equipment

Measurement item	Product No.	Manufacturer	
L	4194A	Agilent Technologies	
DC resistance	VP-2941A	Panasonic	
Rated current Idc1	4284A+42841A+42842C	Agilent Technologies	

* Equivalent measurement equipment may be used.

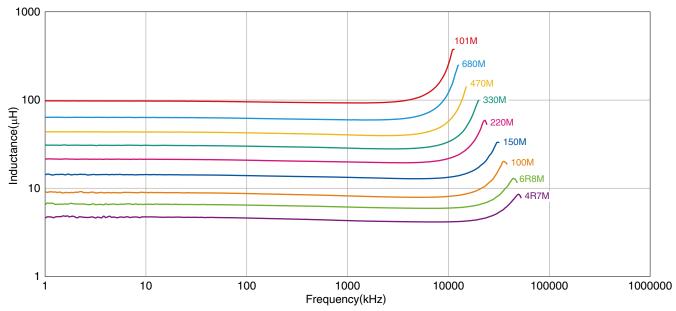
• All specifications are subject to change without notice.

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ELECTRICAL CHARACTERISTICS

L FREQUENCY CHARACTERISTICS GRAPH



 \bigcirc Measurement equipment

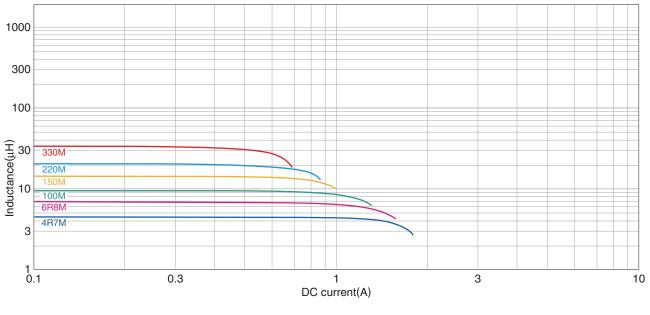
Product No.	Manufacturer
4294A	Agilent Technologies
* Equivalent measur	ement equipment may be used

Equivalent measurement equipment may be used.

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ELECTRICAL CHARACTERISTICS

□ INDUCTANCE VS. DC BIAS CHARACTERISTICS GRAPH



 \bigcirc Measurement equipment

Product No. Manufacturer

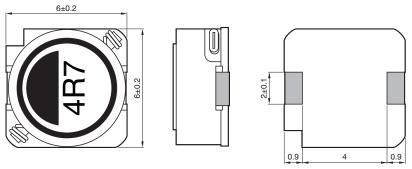
4284A+42841A+42842C Agilent Technologies

 $\ensuremath{\ast}$ Equivalent measurement equipment may be used.

⊗TDK

SLF series SLF6028 Type

SHAPE & DIMENSIONS





Dimensions in mm

RECOMMENDED LAND PATTERN



Dimensions in mm

ELECTRICAL CHARACTERISTICS

CHARACTERISTICS SPECIFICATION TABLE

	L measuring		DC resistance	Rated cur	rent(A)*	
-		frequency	(Ω) ±20%	max.		Part No.
(µH)	tolerance	(kHz)	(32)120/0	ldc1	ldc2	
4.7	±20%	100	0.0284	1.6	2.5	SLF6028T-4R7M1R6-PF
6.8	±20%	100	0.0354	1.5	2.2	SLF6028T-6R8M1R5-PF
10	±20%	100	0.0532	1.3	1.8	SLF6028T-100M1R3-PF
15	±20%	100	0.0745	1	1.4	SLF6028T-150M1R0-PF
22	±20%	100	0.104	0.77	1.3	SLF6028T-220MR77-PF
33	±20%	100	0.148	0.69	1.1	SLF6028T-330MR69-PF
47	±20%	100	0.21	0.59	0.92	SLF6028T-470MR59-PF
68	±20%	100	0.29	0.5	0.78	SLF6028T-680MR50-PF
100	±20%	100	0.43	0.42	0.64	SLF6028T-101MR42-PF
150	±20%	100	0.65	0.34	0.5	SLF6028T-151MR34-PF
220	±20%	100	0.98	0.26	0.38	SLF6028T-221MR26-PF

* Rated current: smaller value of either Idc1 or Idc2.

Idc1: When based on the inductance change rate (30% below the nominal value)

Idc2: When based on the temperature increase (Temperature increase of 25°C by self heating)

\bigcirc Measurement equipment

Measurement item	Product No.	Manufacturer
L	4194A	Agilent Technologies
DC resistance	VP-2941A	Panasonic
Rated current Idc1	4284A+42841A+42842C	Agilent Technologies

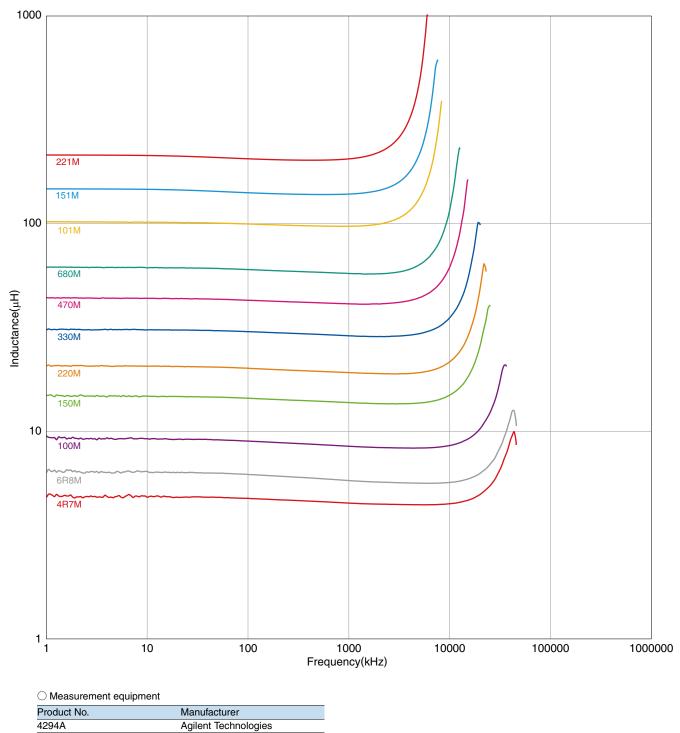
* Equivalent measurement equipment may be used.

⊗TDK

SLF series SLF6028 Type

ELECTRICAL CHARACTERISTICS

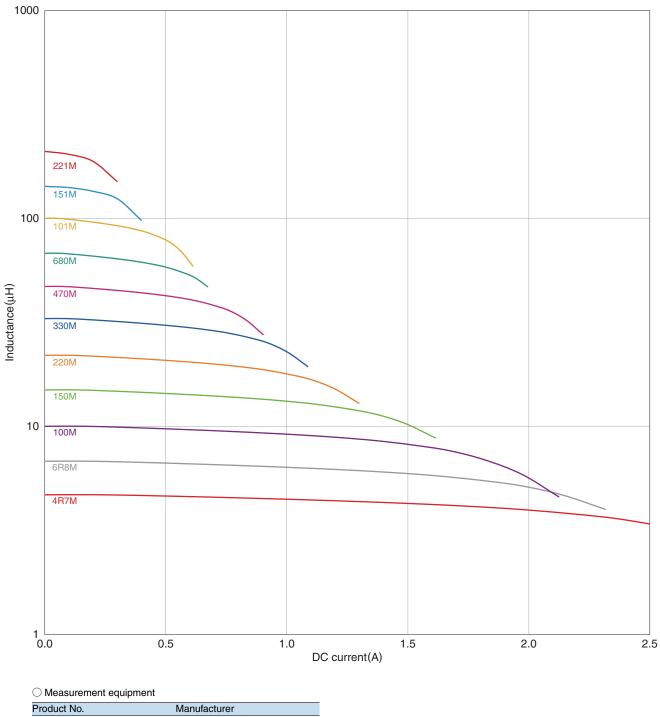
L FREQUENCY CHARACTERISTICS GRAPH



SLF series SLF6028 Type

ELECTRICAL CHARACTERISTICS

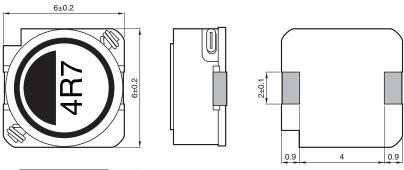
□INDUCTANCE VS. DC BIAS CHARACTERISTICS GRAPH



Product No.	Manufacturer
4284A+42841A+42842C	Agilent Technologies

SLF series SLF6045 Type

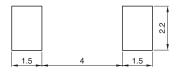
SHAPE & DIMENSIONS



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Dimensions in mm

RECOMMENDED LAND PATTERN



Dimensions in mm

SLF series SLF6045 Type

ELECTRICAL CHARACTERISTICS

CHARACTERISTICS SPECIFICATION TABLE

		L measuring	DC resistance	Rated curre	ent(A)*	
-		frequency	$(\mathbf{m}\Omega)$	max.		Part No.
(µH)	Tolerance	(kHz)	(11152)	ldc1	ldc2	
1.5	±30%	100	16±30%	4	4.1	SLF6045T-1R5N4R0-3PF
2.2	±30%	100	18±30%	3.3	3.8	SLF6045T-2R2N3R3-3PF
3.3	±30%	100	21.5±30%	2.8	3.4	SLF6045T-3R3N2R8-3PF
4.7	±30%	100	26.5±30%	2.4	3.2	SLF6045T-4R7N2R4-3PF
6.8	±30%	100	33±30%	2	2.8	SLF6045T-6R8N2R0-3PF
10	±20%	100	39±20%	1.6	2.7	SLF6045T-100M1R6-3PF
15	±20%	100	59.5±20%	1.3	2.'2	SLF6045T-150M1R3-3PF
22	±20%	100	82±20%	1.1	1.8	SLF6045T-220M1R1-3PF

* Rated current: smaller value of either Idc1 or Idc2.

Idc1: When based on the inductance change rate (10% below the initial value)

Idc2: When based on the temperature increase (Temperature increase of 30°C by self heating)

\bigcirc Measurement equipment

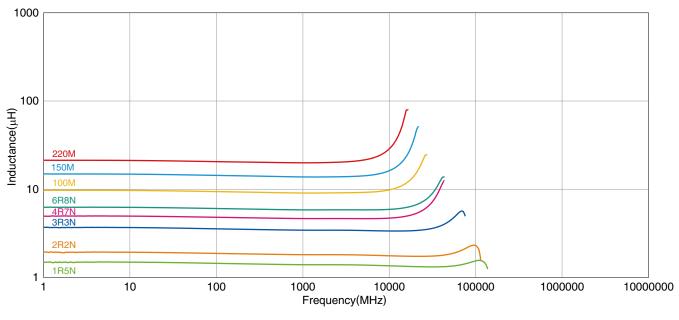
Measurement item	Product No.	Manufacturer
L	4194A	Agilent Technologies
DC resistance	VP-2941A	Panasonic
Rated current Idc1	4284A+42841A+42842C	Agilent Technologies

* Equivalent measurement equipment may be used.

SLF series SLF6045 Type

ELECTRICAL CHARACTERISTICS

L FREQUENCY CHARACTERISTICS GRAPH



○ Measurement equipment

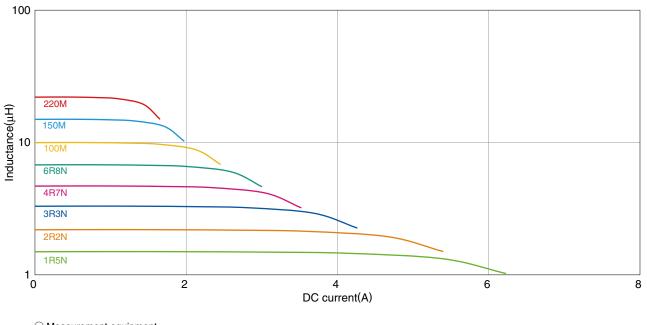
Product No. Manufacturer

4294A Agilent Technologies

SLF series SLF6045 Type

ELECTRICAL CHARACTERISTICS

□INDUCTANCE VS. DC BIAS CHARACTERISTICS GRAPH

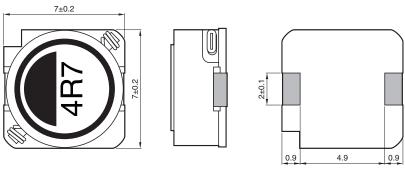


 \bigcirc Measurement equipment

Product No. Manufacturer

4284A+42841A+42842C Agilent Technologies

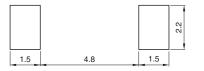
SHAPE & DIMENSIONS





Dimensions in mm

RECOMMENDED LAND PATTERN



Dimensions in mm

ELECTRICAL CHARACTERISTICS

CHARACTERISTICS SPECIFICATION TABLE

L		L measuring	DC resistance	Rated current(A)	
(µH)	Tolerance	frequency (kHz)	(Ω) ±20%	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

○ Measurement equipment

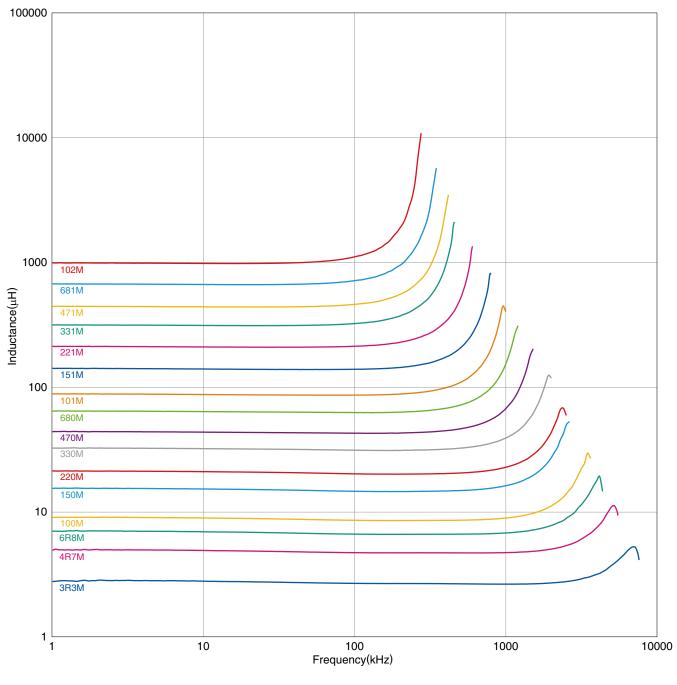
Measurement item	Product No.	Manufacturer
L	4194A	Agilent Technologies
DC resistance	VP-2941A	Panasonic
Rated current Idc1	4284A+42841A+42842C	Agilent Technologies

* Equivalent measurement equipment may be used.

SLF series SLF7032 Type

ELECTRICAL CHARACTERISTICS

L FREQUENCY CHARACTERISTICS GRAPH



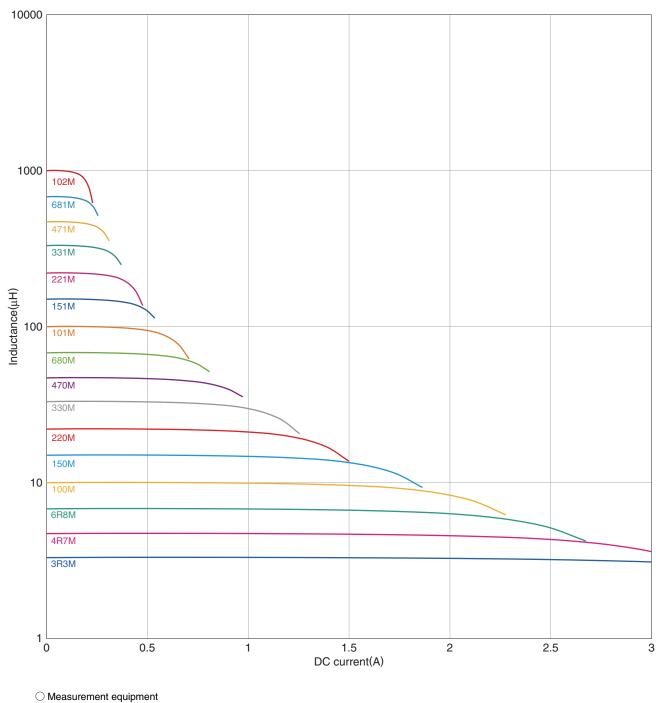
 \bigcirc Measurement equipment

Product No.	Manufacturer			
4294A	Agilent Technologies			
* Equivalent measurement equipment may be used				

SLF series SLF7032 Type

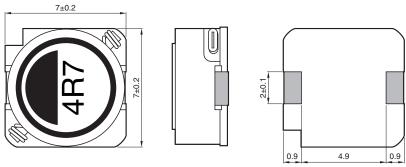
ELECTRICAL CHARACTERISTICS

□ INDUCTANCE VS. DC BIAS CHARACTERISTICS GRAPH



Product No. Manufacturer 4284A+42841A+42842C Agilent Technologies

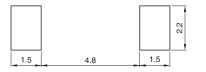
SHAPE & DIMENSIONS





Dimensions in mm

RECOMMENDED LAND PATTERN



Dimensions in mm

SLF series SLF7045 Type

ELECTRICAL CHARACTERISTICS

CHARACTERISTICS SPECIFICATION TABLE

		L measuring		DC resistance Rated current(A)*			
L		frequency	(Ω) ±20%	max.		Part No.	
(µH)	Tolerance	(kHz)	(22)=20 /8	ldc1	ldc2		
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: smaller value of either Idc1 or Idc2.

Idc1: When based on the inductance change rate (10% below the initial value)

Idc2: When based on the temperature increase (Temperature increase of 20°C by self heating)

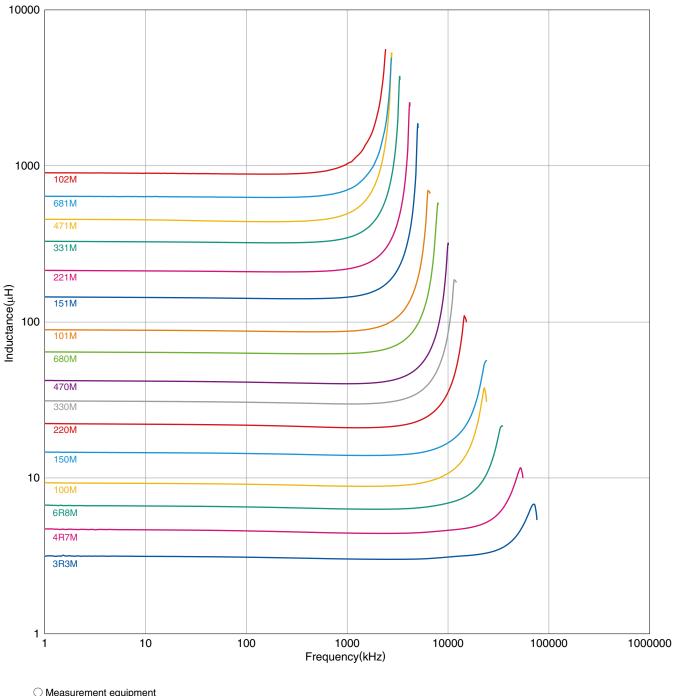
○ Measurement equipment

Measurement item	Product No.	Manufacturer
L	4194A	Agilent Technologies
DC resistance	VP-2941A	Panasonic
Rated current Idc1	4284A+42841A+42842C	Agilent Technologies

SLF series SLF7045 Type

ELECTRICAL CHARACTERISTICS

L FREQUENCY CHARACTERISTICS GRAPH

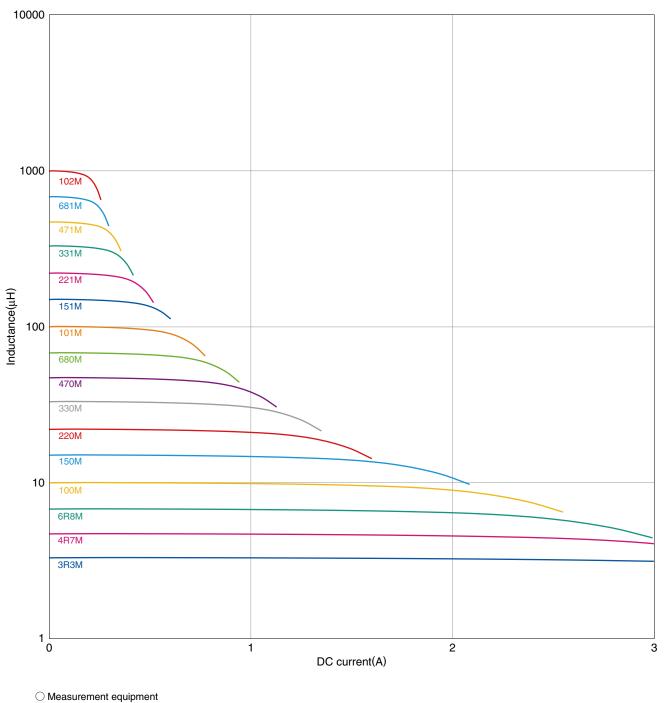


Product No.	Manufacturer
4294A	Agilent Technologies
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SLF series SLF7045 Type

ELECTRICAL CHARACTERISTICS

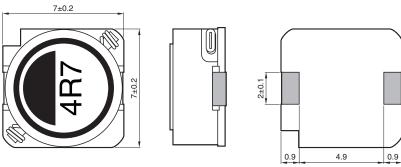
□ INDUCTANCE VS. DC BIAS CHARACTERISTICS GRAPH



Product No. Manufacturer

4284A+42841A+42842C Agilent Technologies

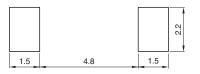
SHAPE & DIMENSIONS





Dimensions in mm

RECOMMENDED LAND PATTERN



Dimensions in mm

SLF series SLF7055 Type

ELECTRICAL CHARACTERISTICS

CHARACTERISTICS SPECIFICATION TABLE

		L measuring	DC resistance	Rated current(A)*		
-		frequency	$(m\Omega)$	max.		Part No.
(µH)	Tolerance	(kHz)	(1122)	ldc1	ldc2	
1.5	±30%	100	17.4±30%	6.2	4	SLF7055T-1R5N4R0-3PF
2.2	±30%	100	21.7±30%	5.3	3.5	SLF7055T-2R2N3R5-3PF
3.3	±30%	100	24±30%	4.3	3.3	SLF7055T-3R3N3R3-3PF
4.7	±30%	100	28±30%	3.6	3.1	SLF7055T-4R7N3R1-3PF
6.8	±30%	100	34±30%	3	2.8	SLF7055T-6R8N2R8-3PF
10	±20%	100	39.1±20%	2.6	2.5	SLF7055T-100M2R5-3PF
15	±20%	100	50.8±20%	2.1	2.2	SLF7055T-150M2R1-3PF
22	±20%	100	64.3±20%	1.7	2	SLF7055T-220M1R7-3PF

* Rated current: smaller value of either Idc1 or Idc2.

Idc1: When based on the inductance change rate (10% below the initial value)

Idc2: When based on the temperature increase (Temperature increase of 30°C by self heating)

\bigcirc Measurement equipment

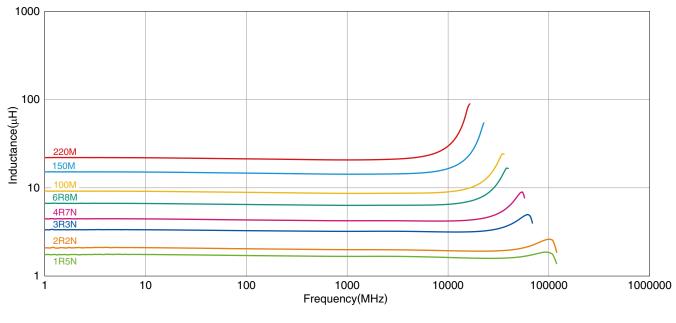
Measurement item	Product No.	Manufacturer
L	4194A	Agilent Technologies
DC resistance	VP-2941A	Panasonic
Rated current Idc1	4284A+42841A+42842C	Agilent Technologies

* Equivalent measurement equipment may be used.

SLF series SLF7055 Type

ELECTRICAL CHARACTERISTICS

L FREQUENCY CHARACTERISTICS GRAPH



○ Measurement equipment

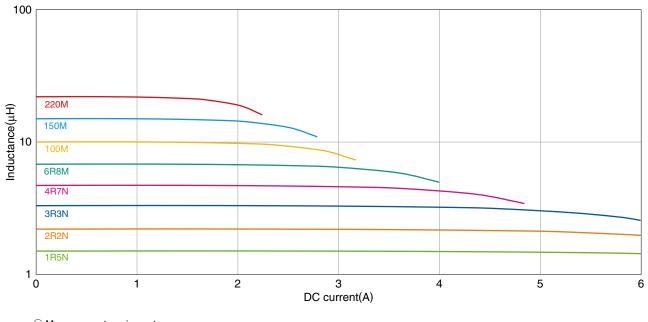
Product No. Manufacturer

4294A Agilent Technologies

SLF series SLF7055 Type

ELECTRICAL CHARACTERISTICS

□INDUCTANCE VS. DC BIAS CHARACTERISTICS GRAPH



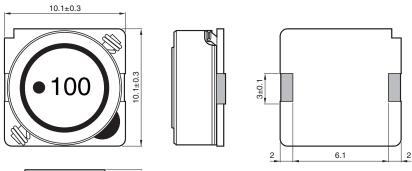
 \bigcirc Measurement equipment

Product No. Manufacturer

4284A+42841A+42842C Agilent Technologies

SLF series SLF10145 Type

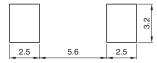
SHAPE & DIMENSIONS



4.5±0.3

Dimensions in mm

RECOMMENDED LAND PATTERN



Dimensions in mm

SLF series SLF10145 Type

ELECTRICAL CHARACTERISTICS

CHARACTERISTICS SPECIFICATION TABLE

	L measuring DC resistance Rated current(A)*		rent(A)*			
-		frequency	(Ω) ±20%	max.		Part No.
(µH)	Tolerance	(kHz)	(S2)±20 /8	ldc1	ldc2	
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: smaller value of either Idc1 or Idc2.

Idc1: When based on the inductance change rate (10% below the initial value)

Idc2: When based on the temperature increase (Temperature increase of 30°C by self heating)

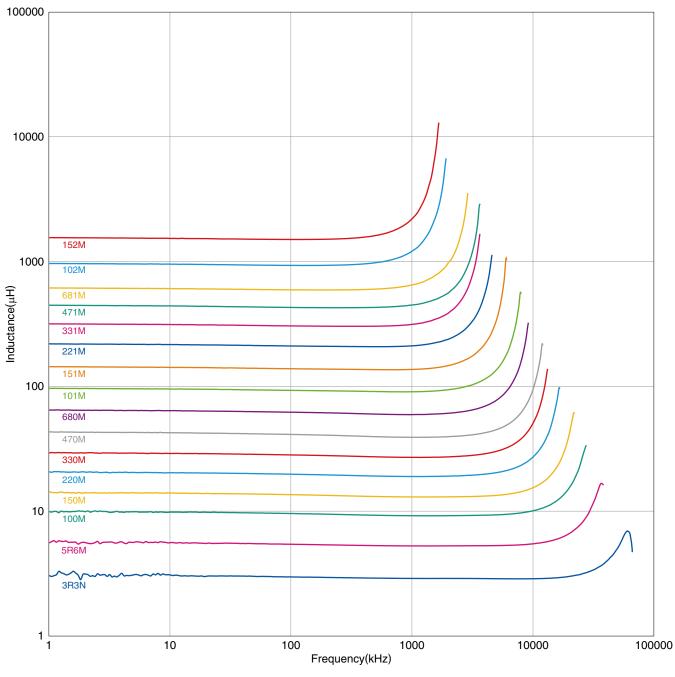
○ Measurement equipment

Measurement item	Product No.	Manufacturer
L	4194A	Agilent Technologies
DC resistance	VP-2941A	Panasonic
Rated current Idc1	4284A+42841A+42842C	Agilent Technologies

SLF series SLF10145 Type

ELECTRICAL CHARACTERISTICS

L FREQUENCY CHARACTERISTICS GRAPH



Draduat Na	Manufacture
O Measurement equipment	

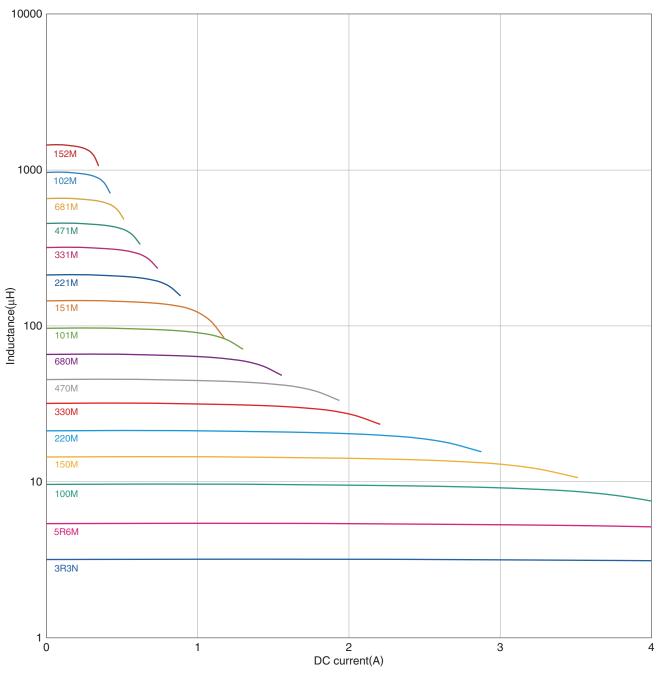
Product No.	Manufacturer	
4294A	Agilent Technologies	
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* Equivalent measurement equipment may be used.

SLF series SLF10145 Type

ELECTRICAL CHARACTERISTICS

□INDUCTANCE VS. DC BIAS CHARACTERISTICS GRAPH

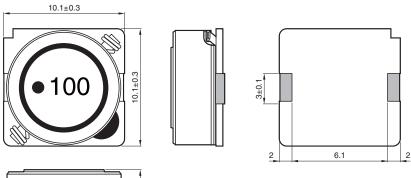


 \bigcirc Measurement equipment

Product No.	Manufacturer			
4284A+42841A+42842C	Agilent Technologies			
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* Equivalent measurement equipment may be used.

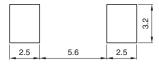
SHAPE & DIMENSIONS



e:5±0.3

Dimensions in mm

RECOMMENDED LAND PATTERN



Dimensions in mm

ELECTRICAL CHARACTERISTICS

CHARACTERISTICS SPECIFICATION TABLE

	L measurin		DC resistance	Rated current(A)*		
-		frequency	m_{Ω} (m Ω)			Part No.
(µH)	Tolerance	(kHz)	(1152)	ldc1	ldc2	
1.5	±30%	100	6.7±30%	10.7	6.8	SLF10165T-1R5N6R83PF
2.2	±30%	100	8.4±30%	8.9	6.3	SLF10165T-2R2N6R33PF
3.3	±30%	100	9.6±30%	7.8	5.8	SLF10165T-3R3N5R83PF
4.7	±30%	100	11.7±30%	6.1	4.7	SLF10165T-4R7N4R73PF
6.8	±30%	100	14±30%	4.6	4.3	SLF10165T-6R8N4R33PF
10	±20%	100	18.5±20%	4.1	3.8	SLF10165T-100M3R83PF
15	±20%	100	27±20%	3.1	3.1	SLF10165T-150M3R13PF
22	±20%	100	44.8±20%	2.7	2.4	SLF10165T-220M2R43PF

* Rated current: smaller value of either Idc1 or Idc2.

Idc1: When based on the inductance change rate (10% below the initial value)

Idc2: When based on the temperature increase (Temperature increase of 30°C by self heating)

\bigcirc Measurement equipment

Measurement item	Product No.	Manufacturer
L	4194A	Agilent Technologies
DC resistance	VP-2941A	Panasonic
Rated current Idc1	4284A+42841A+42842C	Agilent Technologies

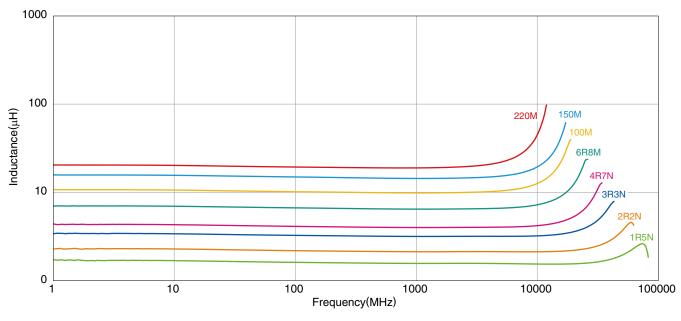
* Equivalent measurement equipment may be used.

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SLF series SLF10165 Type

ELECTRICAL CHARACTERISTICS

L FREQUENCY CHARACTERISTICS GRAPH



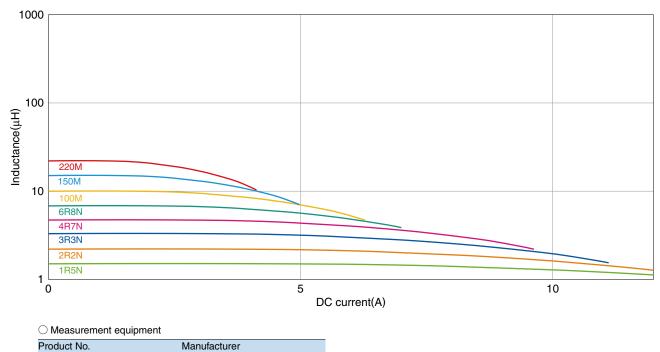
 \bigcirc Measurement equipment

Product No.	Manufacturer	
4294A	Agilent Technologies	
* Equivalent measurement equipment may be used.		

SLF series SLF10165 Type

ELECTRICAL CHARACTERISTICS

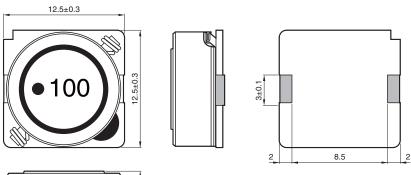
□INDUCTANCE VS. DC BIAS CHARACTERISTICS GRAPH



4284A+42841A+42842C Agilent Technologies

SLF series SLF12555 Type

SHAPE & DIMENSIONS



2:2±0.3

Dimensions in mm

RECOMMENDED LAND PATTERN



Dimensions in mm

SLF series SLF12555 Type

ELECTRICAL CHARACTERISTICS

CHARACTERISTICS SPECIFICATION TABLE

L		L measuring frequency	DC resistance	Rated current(A)*		
			(Ω) ±20%	max.		Part No.
(µH)	Tolerance	(kHz)	(22)=20 /8	ldc1	ldc2	
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: smaller value of either Idc1 or Idc2.

Idc1: When based on the inductance change rate (10% below the initial value)

Idc2: When based on the temperature increase (Temperature increase of 30°C by self heating)

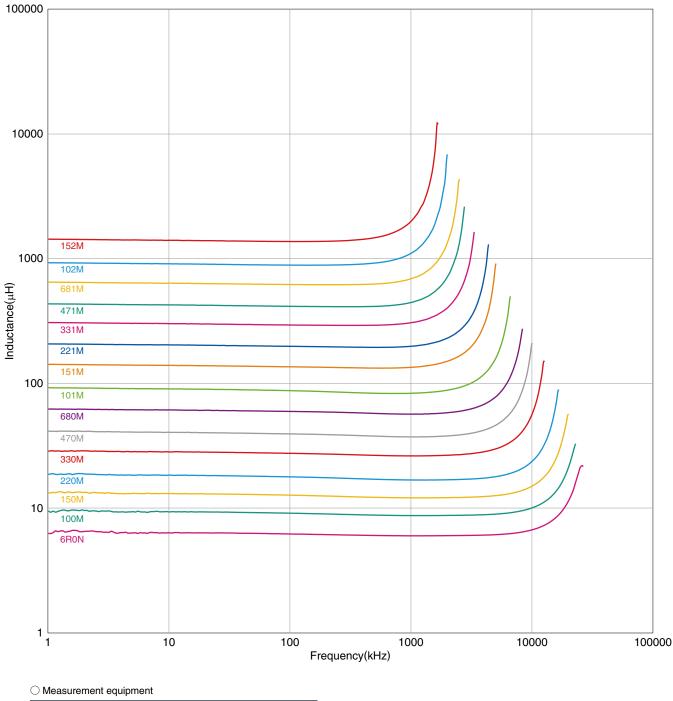
O Measurement equipment

Measurement item	Product No.	Manufacturer
L	4194A	Agilent Technologies
DC resistance	VP-2941A	Panasonic
Rated current Idc1	4284A+42841A+42842C	Agilent Technologies

SLF series SLF12555 Type

ELECTRICAL CHARACTERISTICS

L FREQUENCY CHARACTERISTICS GRAPH

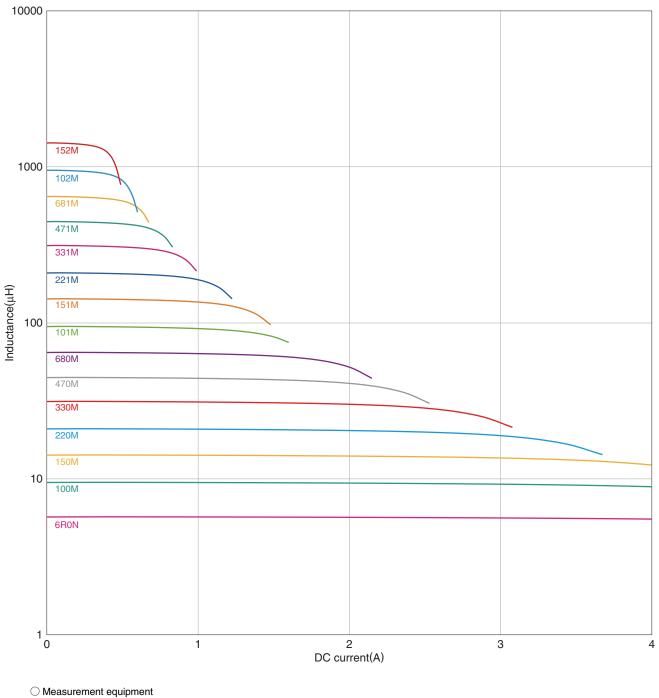


Product No.	Manufacturer		
4294A	Agilent Technologies		
* Equivalent measurement equipment may be used			

SLF series SLF12555 Type

ELECTRICAL CHARACTERISTICS

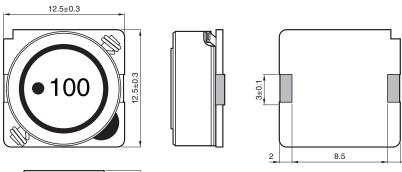
□INDUCTANCE VS. DC BIAS CHARACTERISTICS GRAPH



Product No.	Manufacturer			
4284A+42841A+42842C	Agilent Technologies			

SLF series SLF12565 Type

SHAPE & DIMENSIONS



6.5±0.35

Dimensions in mm

2

RECOMMENDED LAND PATTERN



Dimensions in mm

SLF series SLF12565 Type

ELECTRICAL CHARACTERISTICS

CHARACTERISTICS SPECIFICATION TABLE

		L measuring	DC resistance	Rated cur	rent(A)*	
-		frequency	(Ω) ±20%	max.		Part No.
(µH)	Tolerance	(kHz)	(12)=20 /8	ldc1	ldc2	
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: smaller value of either ldc1 or ldc2.

Idc1: When based on the inductance change rate (10% below the initial value)

Idc2: When based on the temperature increase (Temperature increase of 40°C by self heating)

\bigcirc Measurement equipment

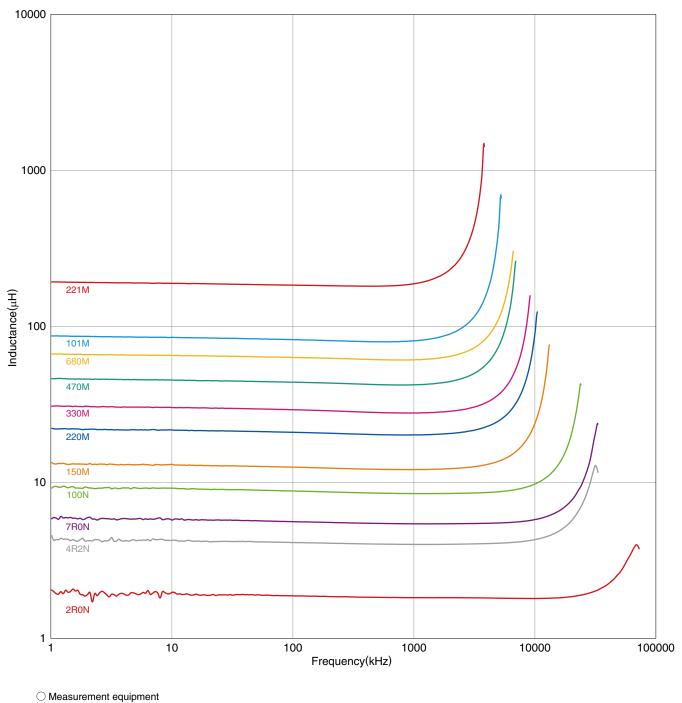
Measurement item	Product No.	Manufacturer
L	4194A	Agilent Technologies
DC resistance	VP-2941A	Panasonic
Rated current Idc1	4284A+42841A+42842C	Agilent Technologies

* Equivalent measurement equipment may be used.

SLF series SLF12565 Type

ELECTRICAL CHARACTERISTICS

L FREQUENCY CHARACTERISTICS GRAPH



4294A Agilent Technologies

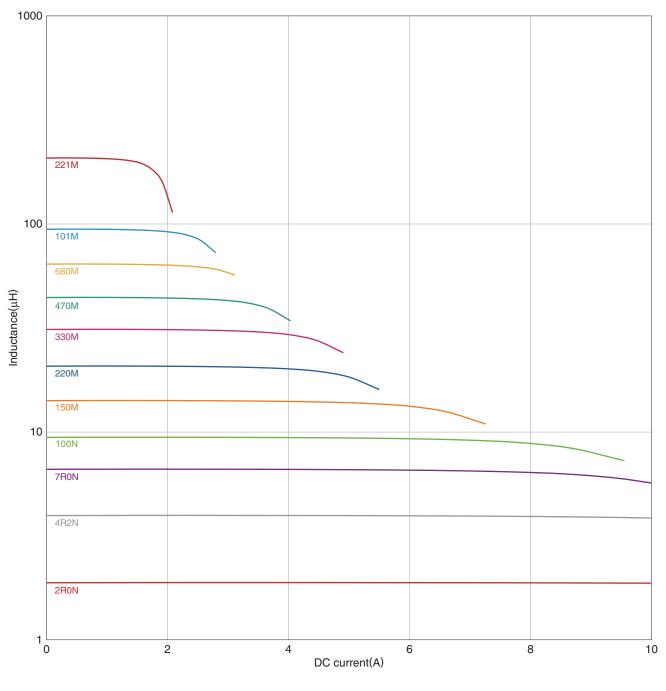
Manufacturer

Product No.

SLF series SLF12565 Type

ELECTRICAL CHARACTERISTICS

□INDUCTANCE VS. DC BIAS CHARACTERISTICS GRAPH

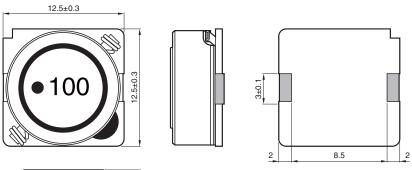


 \bigcirc Measurement equipment

Product No.	Manufacturer
4284A+42841A+42842C	Agilent Technologies

SLF series SLF12575 Type

SHAPE & DIMENSIONS



2.5±0.35

Dimensions in mm

RECOMMENDED LAND PATTERN



Dimensions in mm

公TDK

SLF series SLF12575 Type

ELECTRICAL CHARACTERISTICS

CHARACTERISTICS SPECIFICATION TABLE

		L measuring	DC resistance	Rated current(A)*		
L		frequency	(Ω) ±20%	max.		Part No.
(µH)	Tolerance	(kHz)	(22)=20/8	ldc1	ldc2	
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: smaller value of either Idc1 or Idc2.

Idc1: When based on the inductance change rate (10% below the initial value)

Idc2: When based on the temperature increase (Temperature increase of 40°C by self heating)

\bigcirc Measurement equipment

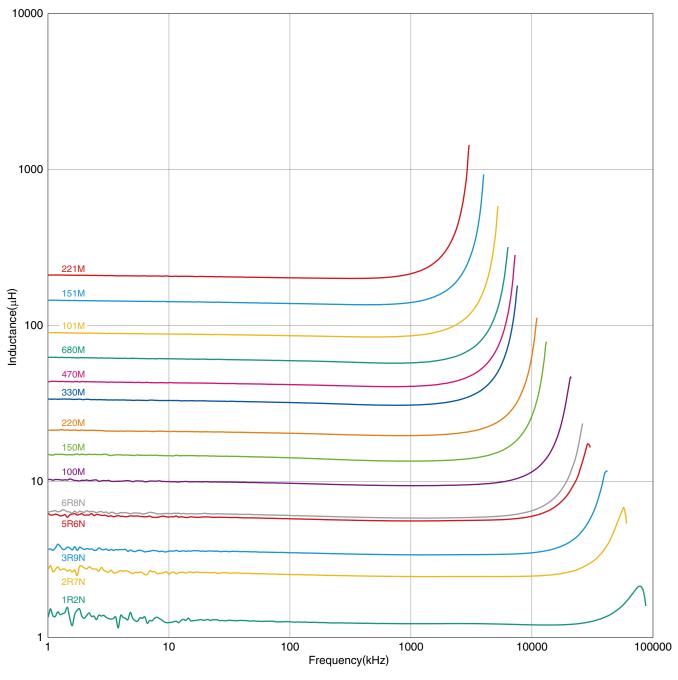
Measurement item	Product No.	Manufacturer
L	4194A	Agilent Technologies
DC resistance	VP-2941A	Panasonic
Rated current Idc1	4284A+42841A+42842C	Agilent Technologies

* Equivalent measurement equipment may be used.

SLF series SLF12575 Type

ELECTRICAL CHARACTERISTICS

L FREQUENCY CHARACTERISTICS GRAPH



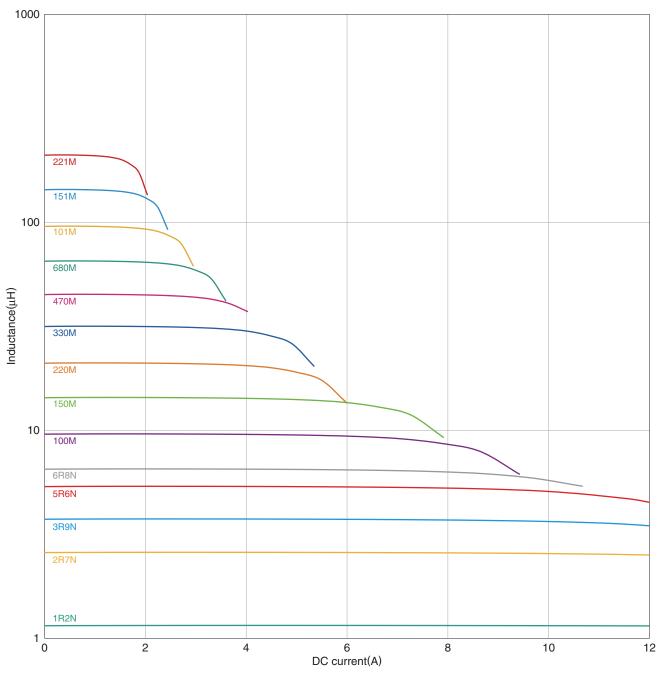
Product No.	Manufacturer
4294A	Agilent Technologies

* Equivalent measurement equipment may be used.

SLF series SLF12575 Type

ELECTRICAL CHARACTERISTICS

□INDUCTANCE VS. DC BIAS CHARACTERISTICS GRAPH



 \bigcirc Measurement equipment

Product No.	Manufacturer
4284A+42841A+42842C	Agilent Technologies
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