INDUCTORS



Inductors for power circuits **Wound ferrite SLF** series







SLF7045 type













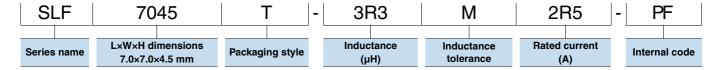
FEATURES

- Magnetic shield type wound inductor for power circuits.
- O Product lineup allows for various usages.
- Operating temperature range: -40 to +105°C (including self-temperature rise)

APPLICATION

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

■ PART NUMBER CONSTRUCTION



CHARACTERISTICS SPECIFICATION TABLE

L		L measuring frequency	DC resistance	Rated curre	nt*	Part No.
				Isat	Itemp	
(µH)	Tolerance	(kHz)	(Ω) ±20 %	(A)max.	(A)max.	
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 Isat or Itemp.

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

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

Measurement equipment

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

^{*} Equivalent measurement equipment may be used.

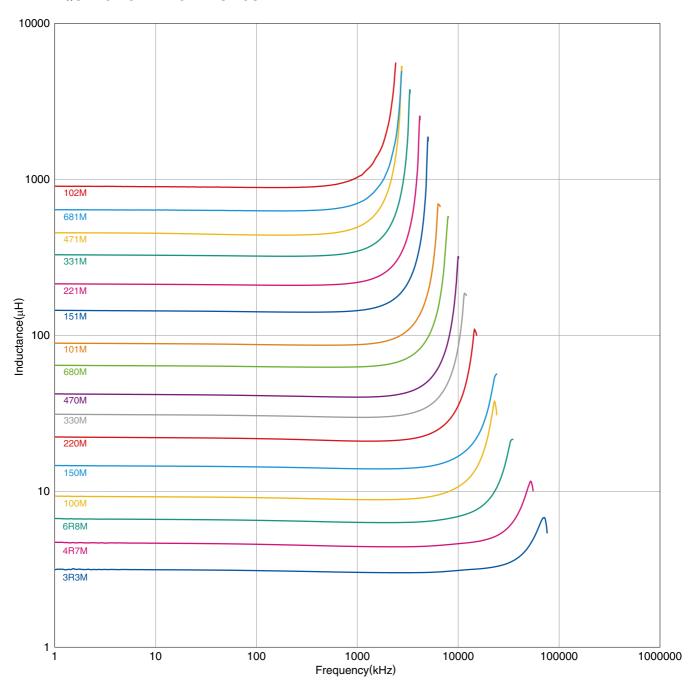


INDUCTORS



SLF7045 type

L FREQUENCY CHARACTERISTICS



Measurement equipment

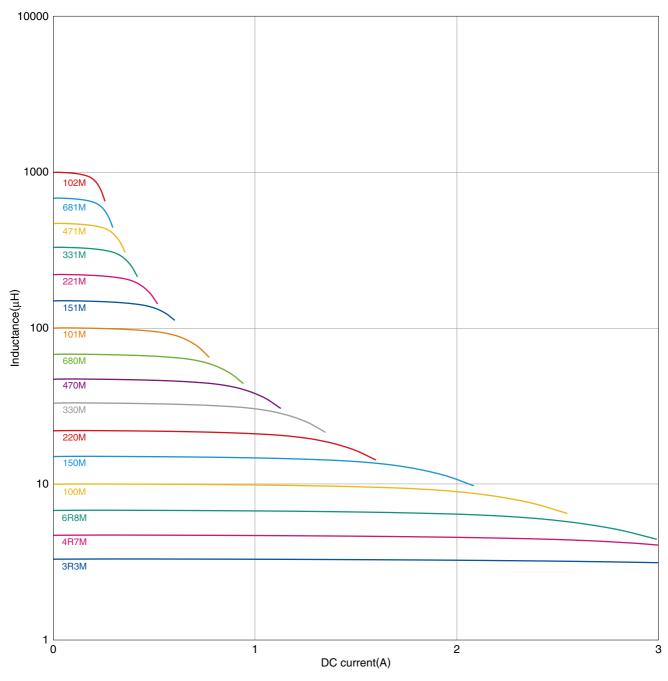
Product No.	Manufacturer
4294A	Keysight Technologies

^{*} Equivalent measurement equipment may be used.



SLF7045 type

■INDUCTANCE VS. DC BIAS CHARACTERISTICS



Measurement equipment

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

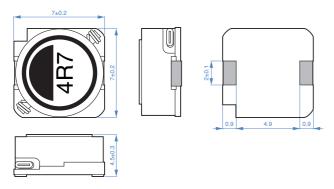
^{*} Equivalent measurement equipment may be used.

INDUCTORS

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SLF7045 type

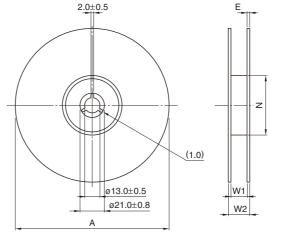
■ SHAPE & DIMENSIONS



Dimensions in mm

■PACKAGING STYLE

REEL DIMENSIONS



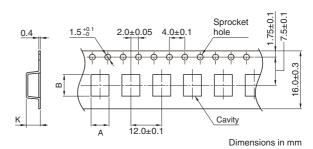
Dimensions in mm

RECOMMENDED LAND PATTERN



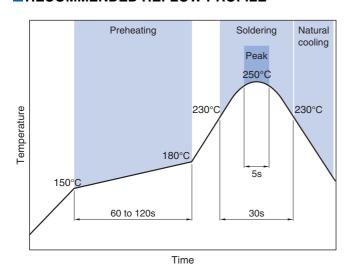
Dimensions in mm

TAPE DIMENSIONS



Туре	Α	В	K
SLF7045	7.4	7.6	4.8

■ RECOMMENDED REFLOW PROFILE



□PACKAGE QUANTITY

Package quantity	1000 pcs/reel

■TEMPERATURE RANGE, INDIVIDUAL WEIGHT

Operating	Storage	Individual
temperature range*	temperature range**	weight
−40 to +105 °C	−40 to +105 °C	0.6 g

^{*} Operating temperature range includes self-temperature rise.

^{**} The storage temperature range is for after the assembly.



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 this products.

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- (1) Aerospace/aviation equipment
- (2) Transportation equipment (cars, electric trains, ships, etc.)
- (3) Medical equipment

person or property.

(4) Power-generation control equipment

set forth in the each catalog, please contact us.

- (5) Atomic energy-related equipment
- (6) Seabed equipment
- (7) Transportation control equipment

- (8) Public information-processing equipment
- (9) Military equipment
- (10) Electric heating apparatus, burning equipment
- (11) Disaster prevention/crime prevention equipment
- (12) Safety equipment
- (13) Other applications that are not considered general-purpose applications

When designing your equipment even for general-purpose applications, you are kindly requested to take into consideration securing protection circuit/device or providing backup circuits in your equipment.

If you intend to use the products in the applications listed below or if you have special requirements exceeding the range or conditions