INDUCTORS

DK

Inductors for power circuits Wound ferrite SLF-H series (for automotive)





FEATURES

O Magnetic shield type wound inductor for power circuits.

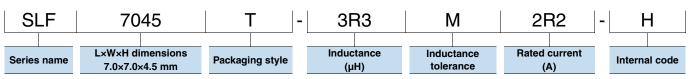
O Product lineup allows for various usages.

○ Operating temperature range: -40 to +125°C (including self-temperature rise)

APPLICATION

O Automotive-related equipment (ECM, airbags, headlights, electronic power steering, meters, ABS, other) O Application guides: Automotive (xEV)

PART NUMBER CONSTRUCTION



CHARACTERISTICS SPECIFICATION TABLE

L		L measuring frequency	DC resistance	Rated curre	ent*		Part No.
				Isat	Isat	Itemp	
(µH)	Tolerance	(kHz)	(Ω)	(A)max.	(A)typ.	(A)typ.	
3.3	±20%	100	0.028±20%	2.20	6.30	2.30	SLF7045T-3R3M2R2-H
4.7	±20%	100	0.031±20%	2.10	5.10	2.10	SLF7045T-4R7M2R1-H
6.8	±20%	100	0.039±20%	1.90	4.70	2.04	SLF7045T-6R8M1R9-H
10	±20%	100	0.047±20%	1.80	3.70	1.81	SLF7045T-100M1R8-H
15	±20%	100	0.068±20%	1.50	2.90	1.46	SLF7045T-150M1R5-H
22	±20%	100	0.082±20%	1.30	2.50	1.25	SLF7045T-220M1R3-H
33	±20%	100	0.120±20%	1.10	2.00	1.11	SLF7045T-330M1R1-H
47	±20%	100	0.180±20%	0.90	1.70	0.93	SLF7045T-470MR90-H
68	±20%	100	0.270±20%	0.75	1.40	0.76	SLF7045T-680MR75-H
100	±20%	100	0.390±20%	0.60	1.10	0.61	SLF7045T-101MR60-H
150	±20%	100	0.550±20%	0.50	1.00	0.54	SLF7045T-151MR50-H
220	±20%	100	0.830±20%	0.40	0.70	0.43	SLF7045T-221MR40-H
330	±20%	100	1.15±20%	0.35	0.60	0.37	SLF7045T-331MR35-H
470	±20%	100	1.80±20%	0.31	0.40	0.31	<u>SLF7045T-471MR31-H</u>

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

Isat(typ.): When based on the inductance change rate (30% 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

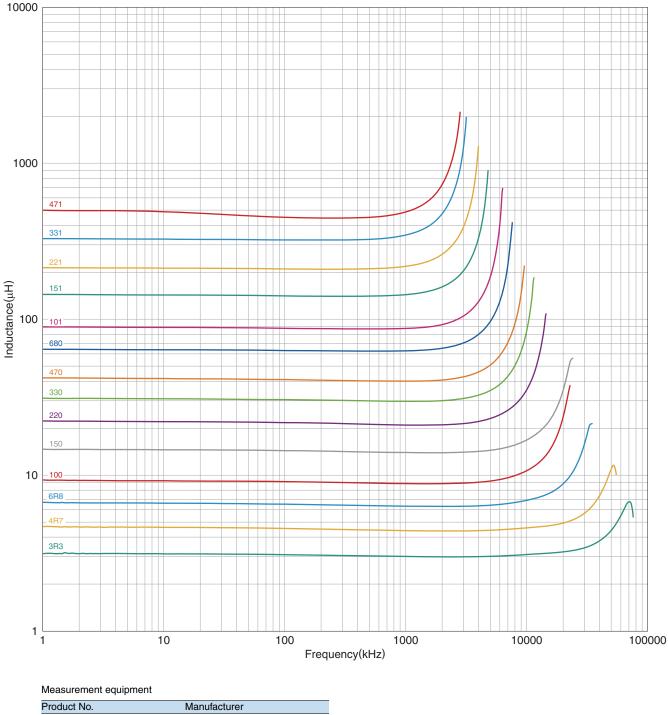
* Equivalent measurement equipment may be used.



Please be sure to request delivery specifications that provide further details on the features and specifications of the products for proper and safe use. Please note that the contents may change without any prior notice due to reasons such as upgrading. (1/5)20181221

SLF7045-H type

L FREQUENCY CHARACTERISTICS

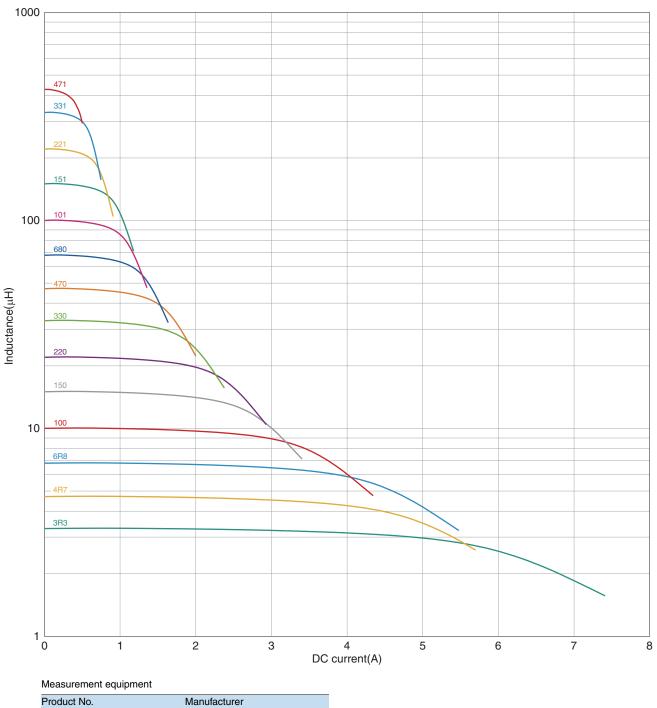


Product No.	Manufacturer		
4294A	Keysight Technologies		
* Equivalent measurement equipment may be used.			

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SLF7045-H type

■ INDUCTANCE VS. DC BIAS CHARACTERISTICS

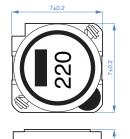


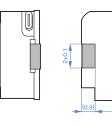
4284A+42841A+42842CKeysight Technologies* Equivalent measurement equipment may be used.

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SLF7045-H type

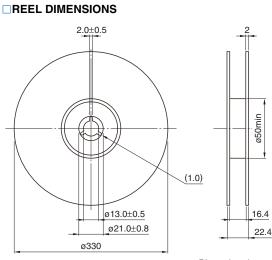
SHAPE & DIMENSIONS





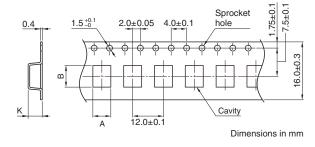
Dimensions in mm

PACKAGING STYLE



Dimensions in mm

TAPE DIMENSIONS

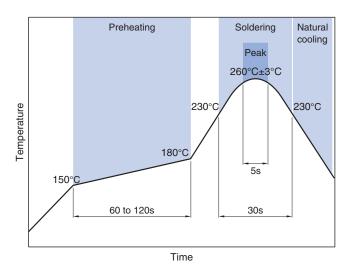


Туре	А	В	К
SLF7045-H	7.4	7.6	4.8

RECOMMENDED REFLOW PROFILE

RECOMMENDED LAND PATTERN

Dimensions in mm



PACKAGE QUANTITY

Package quantity	1000 pcs/reel

TEMPERATURE RANGE, INDIVIDUAL WEIGHT

Operating temperature range*	Storage temperature range**	Individual weight	
–40 to +125 °C	–40 to +125 °C	0.6 g	
* Operating temperature ran	Operating temperature range includes self-temperature rise.		

** The storage temperature range is for after the assembly.

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(4/5)
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20181221

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.

 The storage period is less than 6 months. Be sure to follow the s less). If the storage period elapses, the soldering of the terminal electric 	storage conditions (temperature: 5 to 30°C, humidity: 10 to 75% RH or		
O Do not use or store in locations where there are conditions such	as yas conosion (sait, aciu, aikaii, etc.).		
 Before soldering, be sure to preheat components. The preheating temperature should be set so that the temperative does not exceed 150°C. 	ture difference between the solder temperature and chip temperature		
 Soldering corrections after mounting should be within the range If overheated, a short circuit, performance deterioration, or lifesp 	-		
When embedding a printed circuit board where a chip is mount the overall distortion of the printed circuit board and partial distortion	ed to a set, be sure that residual stress is not given to the chip due to rtion such as at screw tightening portions.		
 Self heating (temperature increase) occurs when the power is design. 	turned ON, so the tolerance should be sufficient for the set thermal		
 Carefully lay out the coil for the circuit board design of the non-m A malfunction may occur due to magnetic interference. 	nagnetic shield type.		
\bigcirc Use a wrist band to discharge static electricity in your body through	ugh the grounding wire.		
\bigcirc Do not expose the products to magnets or magnetic fields.			
\bigcirc Do not use for a purpose outside of the contents regulated in the	e delivery specifications.		
ment, home appliances, amusement equipment, computer equipment, industrial robots) under a normal operation and use condi The products are not designed or warranted to meet the requirer ity require a more stringent level of safety or reliability, or whose person or property.	eral electronic equipment (AV equipment, telecommunications equip- uipment, personal equipment, office equipment, measurement equip- tion. nents of the applications listed below, whose performance and/or qual- failure, malfunction or trouble could cause serious damage to society, or if you have special requirements exceeding the range or conditions		
 (1) Aerospace/aviation equipment (2) Transportation equipment (electric trains, ships, etc.) (3) Medical equipment (4) Power-generation control equipment (5) Atomic energy-related equipment (6) Seabed equipment (7) Transportation control equipment When designing your equipment even for general-purpose applicat tection circuit/device or providing backup circuits in your 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 		

A Please be sure to request delivery specifications that provide further details on the features and specifications of the products for proper and safe use. Please note that the contents may change without any prior notice due to reasons such as upgrading. (5/5)

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