INDUCTORS

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



SLF6045 type



FEATURES

O Magnetic shield type wound inductor for power circuits.

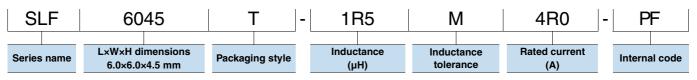
O Product lineup allows for various usages.

○ Operating temperature range: -40 to +105°C (including self-temperature rise)

APPLICATION

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

PART NUMBER CONSTRUCTION



CHARACTERISTICS SPECIFICATION TABLE

L		L measuring frequency	DC resistance	Rated current	*	Part No.
				Isat	Itemp	
(µH)	Tolerance	(kHz)	(m Ω)	(A)max.	(A)max.	
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 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 30°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			

Equivalent measurement equipment may be used.

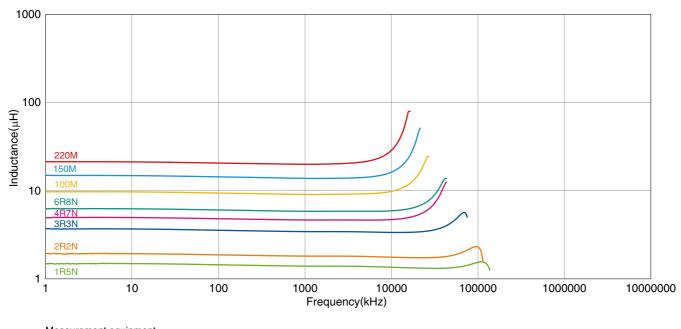


A Please be sure to request delivery specifications that provide further details on the features and specifications of the products for proper and safe use. Please note that the contents may change without any prior notice due to reasons such as upgrading. (1/4)

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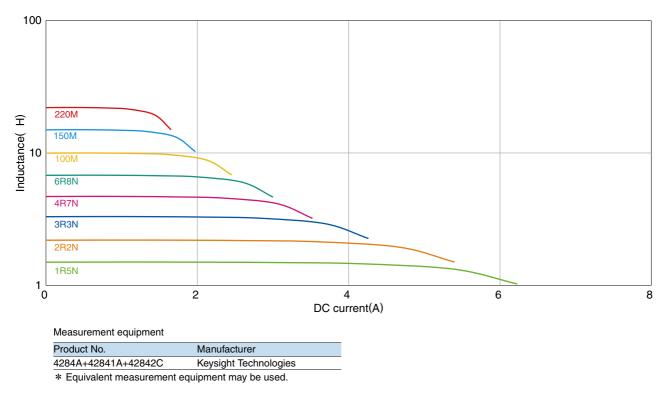
SLF6045 type

L FREQUENCY CHARACTERISTICS



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

■ INDUCTANCE VS. DC BIAS CHARACTERISTICS

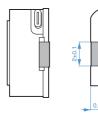


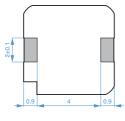
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SLF6045 type

SHAPE & DIMENSIONS

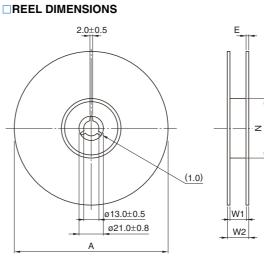






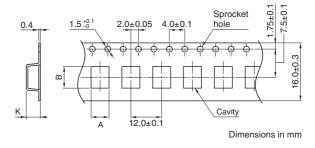
Dimensions in mm

PACKAGING STYLE



Dimensions in mm

TAPE DIMENSIONS



Туре	А	В	К
SLF6045	6.4	6.4	4.9

RECOMMENDED REFLOW PROFILE

RECOMMENDED LAND PATTERN



Dimensions in mm

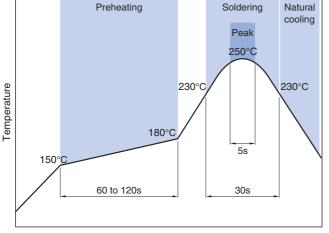
PACKAGE QUANTITY

Package quantity	1000 pcs/reel
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TEMPERATURE RANGE, INDIVIDUAL WEIGHT

Operating temperature range*	Storage temperature range**	Individual weight	
–40 to +105 °C	-40 to +105 °C	0.4 g	
* Operating temperature ran	Operating temperature range includes self-temperature rise		

* Operating temperature range includes self-temperature rise.
 ** The storage temperature range is for after the assembly.



Time

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(3/4)
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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 storage conditions (temperature: 5 to 30°C, humidity: 10 to 75% RH o less). It the storage period elegander the coldering of the terminal elegander may deteriorate.				
If the storage period elapses, the soldering of the terminal electrodes may deteriorate.				
) Do not use or store in locations where there are conditions such as gas corrosion (salt, acid, alkali, etc.).				
 Before soldering, be sure to preheat components. The preheating temperature should be set so that the temperature does not exceed 150°C. 	e difference between the solder temperature and chip temperature			
 Soldering corrections after mounting should be within the range of If overheated, a short circuit, performance deterioration, or lifespar 	-			
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 therma design.				
 Carefully lay out the coil for the circuit board design of the non-mag A malfunction may occur due to magnetic interference. 	gnetic shield type.			
\bigcirc Use a wrist band to discharge static electricity in your body through	n the grounding wire.			
O Do not expose the products to magnets or magnetic fields.				
O Do not use for a purpose outside of the contents regulated in the d	elivery specifications.			
ment, industrial robots) under a normal operation and use condition The products are not designed or warranted to meet the requirement ity require a more stringent level of safety or reliability, or whose far person or property.	ment, personal equipment, office equipment, measurement equip-			
 (1) Aerospace/aviation equipment (2) Transportation equipment (cars, 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 application 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 			

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