INDUCTORS

公TDK

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



SLF12575 type

FEATURES

O Magnetic shield type wound inductor for power circuits.

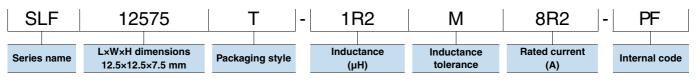
O Product lineup allows for various usages.

○ 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)	(Ω)±20%	(A)max.	(A)max.	
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 lsat 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 40°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.

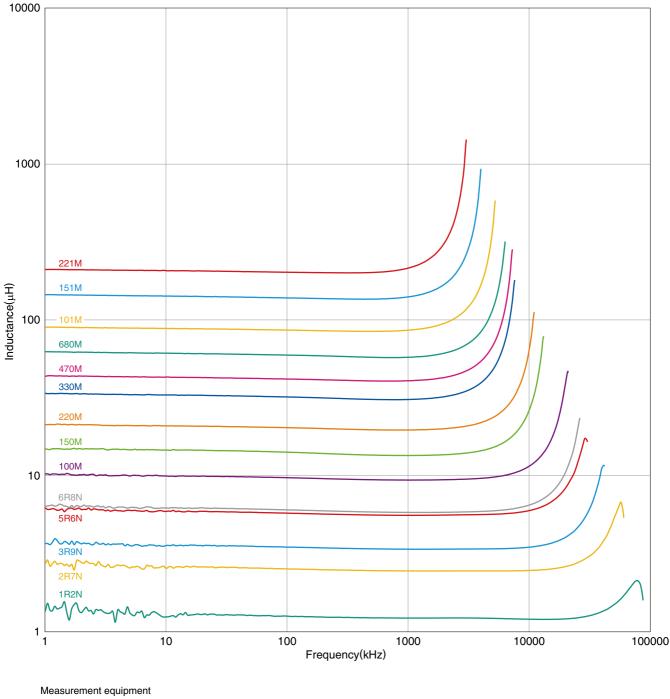


A Please be sure to request delivery specifications that provide further details on the features and specifications of the products for proper and safe use. Please note that the contents may change without any prior notice due to reasons such as upgrading. (1/5)

20180730

SLF12575 type

L FREQUENCY CHARACTERISTICS



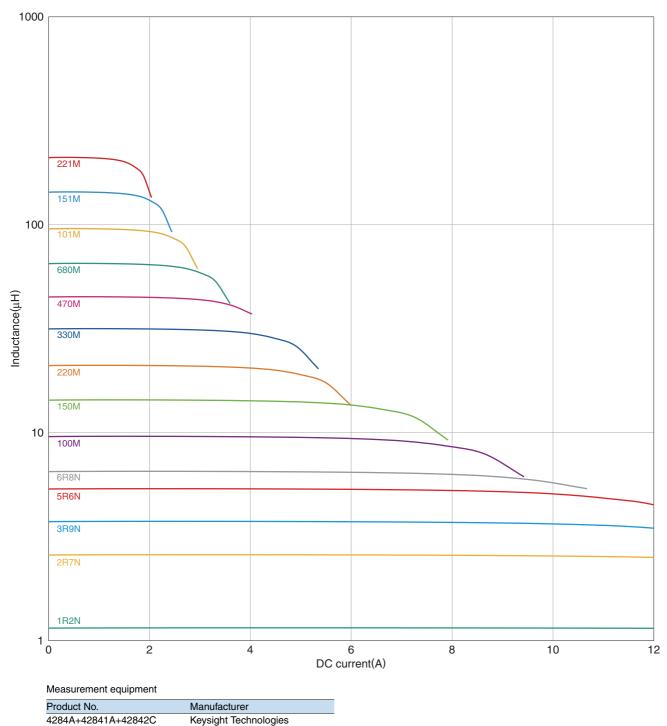
Product No.	Manufacturer			
4294A	Keysight Technologies			

* Equivalent measurement equipment may be used.

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SLF12575 type

INDUCTANCE VS. DC BIAS CHARACTERISTICS



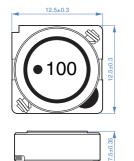
* Equivalent measurement equipment may be used.

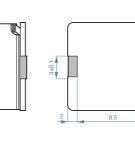
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20180730

SLF12575 type

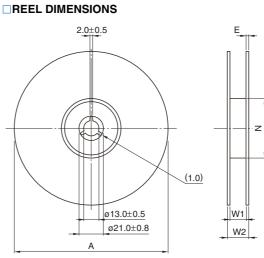
SHAPE & DIMENSIONS





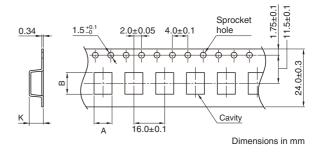
Dimensions in mm

PACKAGING STYLE



Dimensions in mm

TAPE DIMENSIONS



Туре	A	В	К
SLF12575	13	13	8

RECOMMENDED LAND PATTERN

RECOMMENDED REFLOW PROFILE



Dimensions in mm

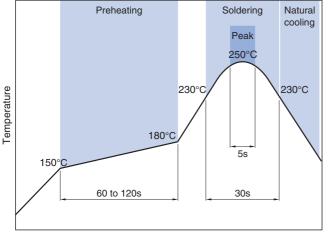
PACKAGE QUANTITY

Package quantity	500 pcs/reel	
i ackage quantity	300 pc3/reer	

TEMPERATURE RANGE, INDIVIDUAL WEIGHT

	Operating temperature range*	Storage temperature range**	Individual weight
	–40 to +105 °C	–40 to +105 °C	3.6 g
*	Operating temperature range includes self-temperature rise.		

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



Time

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 20180730

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).				
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 the conditions determined in the specifications. If overheated, a short circuit, performance deterioration, or lifespan shortening may occur.				
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.			
○ 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 conditio The products are not designed or warranted to meet the requireme ity require a more stringent level of safety or reliability, or whose fa person or property.	ment, personal equipment, office equipment, measurement equip-			
 Aerospace/aviation equipment Transportation equipment (cars, electric trains, ships, etc.) Medical equipment Power-generation control equipment Atomic energy-related equipment Seabed equipment Transportation control equipment 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 			

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