* Please refer to our Web site about replacement information.

INDUCTORS

公TDK

Inductors for power circuits Wound ferrite SLF series



















SLF12575 type

FEATURES

- OMagnetic shield type wound inductor for power circuits.
- OProduct 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

S	LF	12575	Т	-	1R2	M	8R2 -	PF
Se	ries	L×W×Hdimensions	Packaging		Inductance	Inductance	定格? 流	Internal
na	ame	12.5×12.5×7.5 mm	style		(µH)	tolerance	(A)	code

CHARACTERISTICS SPECIFICATION TABLE

L		LMeasuring frequency	DC resistance	Rated current*	9	Part No.
				Isat	Itemp	
(µH)	Tolerance	(kHz)	(Ω)±20%	(A)max.	(A)typ.	
1.2	±30%	1	0.0069	13	8.2	SLF12575T-1R2N8R2-PF
2.7	±30%	1	0.0094	10	7	<u>SLF12575T-2R7N7R0-PF</u>
3.9	±30%	1	0.0104	9	6.7	<u>SLF12575T-3R9N6R7-PF</u>
5.6	±30%	1	0.0116	7.8	6.3	SLF12575T-5R6N6R3-PF
6.8	±30%	1 /	0.0131	7.2	5.9	<u>SLF12575T-6R8N5R9-PF</u>
10	±20%	1	0.0156	5.5	5.4	<u>SLF12575T-100M5R4-PF</u>
15	±20%	1	0.0184	4.7	5	<u>SLF12575T-150M4R7-PF</u>
22	±20%	1	0.0263	4	4	<u>SLF12575T-220M4R0-PF</u>
33	±20%	1	0.0395	3.2	3.4	<u>SLF12575T-330M3R2-PF</u>
47	±20%	1	0.0528	2.7	3	<u>SLF12575T-470M2R7-PF</u>
68	±20%	1	0.0778	2	2.4	<u>SLF12575T-680M2R0-PF</u>
100	±20%	_1 /	0.125	1.9	1.9	<u>SLF12575T-101M1R9-PF</u>
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 Isat or Itemp.

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

Itemp: When based on the temperature increase (temperature increase of 40 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

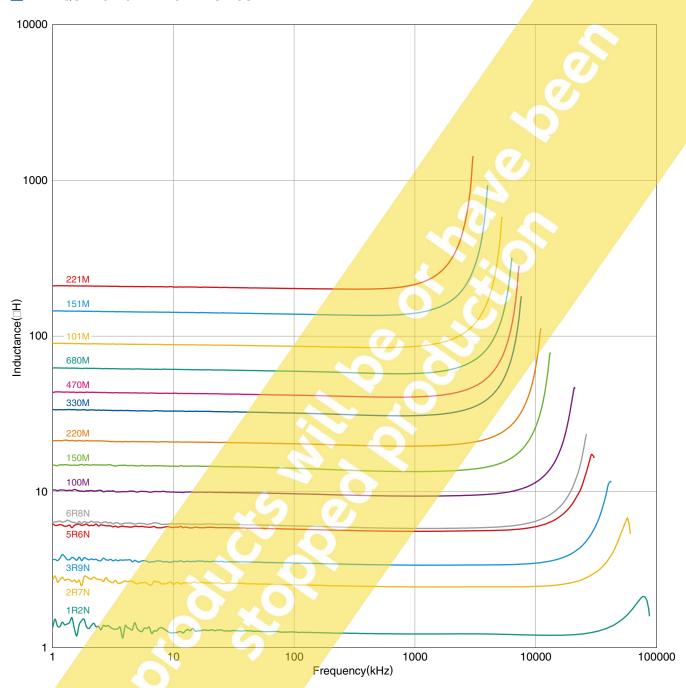
^{*} Equivalent measurement equipment may be used.





SLF12575 type

L FREQUENCY CHARACTERISTICS



Measurement equipment

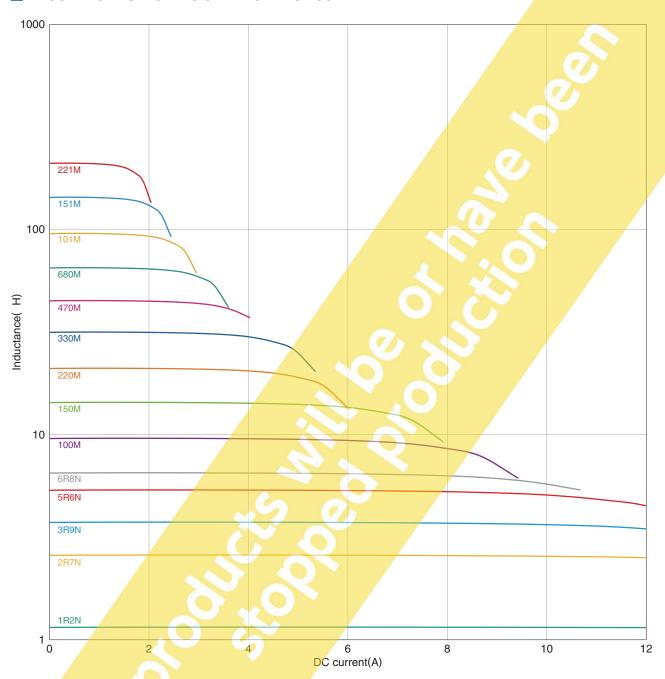
Product No.	Manufacturer	
4294A	Keysight Technologies	

^{*} Equivalent measurement equipment may be used.



SLF12575 type

INDUCTANCE VS. DC BIAS CHARACTERISTICS



Measurement equipment

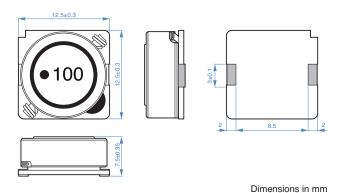
Product No. Manufacturer
4284A+42841A+42842C Keysight Technologies

^{*} Equivalent measurement equipment may be used.

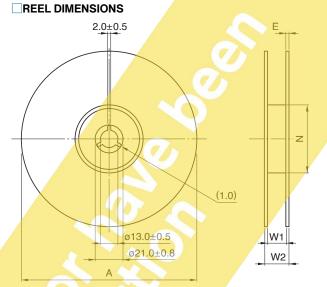


SLF12575 type

SHAPE & DIMENSIONS



PACKAGING STYLE



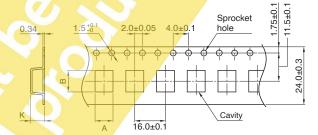
Dimensions in mm

RECOMMENDED LAND PATTERN



Dimensions in mm

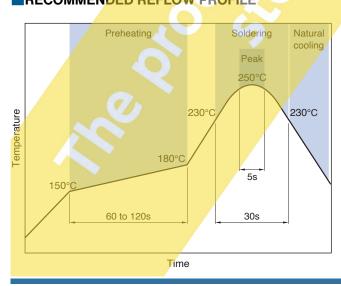
TAPE DIMENSIONS



Dimensions in mm

Туре	Α	В	K
SLF12575	13	13	8

RECOMMENDED REFLOW PROFILE



PACKAGE QUANTITY

Package quantity	500 pcs/reel

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.



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

REMINDERS

The storage period is within 6 months. Be sure to follow the s RH or less).	torage conditions (temperature: 5 to 30°C, humidity: 10 to 75%
If the storage period elapses, the soldering of the terminal ele	ectrodes may deteriorate.
ODo not use or store in locations where there are conditions su	ich as gas corrosion (salt, acid, alkali, etc.).
Before soldering, be sure to preheat components. The preheating temperature should be set so that the temper temperature does not exceed 150°C.	rature difference between the solder temperature and chip
Soldering corrections after mounting should be within the ran If overheated, a short circuit, performance deterioration, or li	
When embedding a printed circuit board where a chip is mound due to the overall distortion of the printed circuit board and p	nted to a set, be sure that residual stress is not given to the chip partial distortion such as at screw tightening portions.
Self heating (temperature increase) occurs when the power is thermal design.	s turned ON, so the tolerance should be sufficient for the set
Carefully lay out the coil for the circuit board design of the no A malfunction may occur due to magnetic interference.	on-magnetic shield type.
Ouse a wrist band to discharge static electricity in your body the	nrough the grounding wire.
ODo not expose the products to magnets or magnetic fields.	
ODo not use for a purpose outside of the contents regulated in	the delivery specifications.
equipment, home appliances, amusement equipment, compute measurement equipment, industrial robots) under a normal of the products are not designed or warranted to meet the requipment level of safety or reliability damage to society, person or property.	
(1) Aerospace/aviation equipment (2) Transportation equipment (cars, electric trains, ships, etc.)	(7) Transportation control equipment (8) Public information-processing equipment
(3) Medical equipment	(9) Military equipment
(4) Power-generation control equipment (5) Atomic energy-related equipment	(10) Electric heating apparatus, burning equipment(11) Disaster prevention/crime prevention equipment
(6) Seabed equipment	(12) Safety equipment

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.

applications

(13) Other applications that are not considered general-purpose