INDUCTORS

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



SLF6028 type



FEATURES

O Magnetic shield type wound inductor for power circuits.

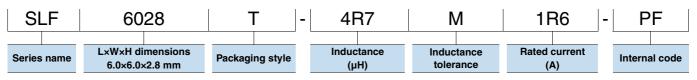
O Product lineup allows for various usages.

○ 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 measuring frequency	DC resistance	Rated current*		Part No.
			Isat	Itemp	
Tolerance	(kHz)	(Ω)±20%	(A)max.	(A)typ.	
±20%	100	0.0284	1.6	2.5	SLF6028T-4R7M1R6-PF
±20%	100	0.0354	1.5	2.2	SLF6028T-6R8M1R5-PF
±20%	100	0.0532	1.3	1.8	SLF6028T-100M1R3-PF
±20%	100	0.0745	1	1.4	SLF6028T-150M1R0-PF
±20%	100	0.104	0.77	1.3	SLF6028T-220MR77-PF
±20%	100	0.148	0.69	1.1	SLF6028T-330MR69-PF
±20%	100	0.21	0.59	0.92	SLF6028T-470MR59-PF
±20%	100	0.29	0.5	0.78	SLF6028T-680MR50-PF
±20%	100	0.43	0.42	0.64	SLF6028T-101MR42-PF
±20%	100	0.65	0.34	0.5	SLF6028T-151MR34-PF
±20%	100	0.98	0.26	0.38	SLF6028T-221MR26-PF
	±20% ±20% ±20% ±20% ±20% ±20% ±20% ±20%	frequency Tolerance (kHz) ±20% 100 ±20% 100 ±20% 100 ±20% 100 ±20% 100 ±20% 100 ±20% 100 ±20% 100 ±20% 100 ±20% 100 ±20% 100 ±20% 100 ±20% 100	Tolerance (kHz) (Ω)±20% ±20% 100 0.0284 ±20% 100 0.0354 ±20% 100 0.0532 ±20% 100 0.0745 ±20% 100 0.104 ±20% 100 0.148 ±20% 100 0.21 ±20% 100 0.29 ±20% 100 0.43 ±20% 100 0.65	frequency Isat Tolerance (kHz) (Ω)±20% (A)max. ±20% 100 0.0284 1.6 ±20% 100 0.0354 1.5 ±20% 100 0.0532 1.3 ±20% 100 0.0745 1 ±20% 100 0.104 0.77 ±20% 100 0.148 0.69 ±20% 100 0.21 0.59 ±20% 100 0.43 0.42 ±20% 100 0.43 0.42	frequencyTolerance(kHz)(Ω)±20%IastItemp±20%1000.02841.62.5±20%1000.03541.52.2±20%1000.05321.31.8±20%1000.074511.4±20%1000.1040.771.3±20%1000.1480.691.1±20%1000.210.590.92±20%1000.290.50.78±20%1000.430.420.64±20%1000.6550.340.5

Rated current: smaller value of either lsat or Itemp.

Isat: When based on the inductance change rate (30% below the nominal value)

Itemp: When based on the temperature increase (temperature increase of 25°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

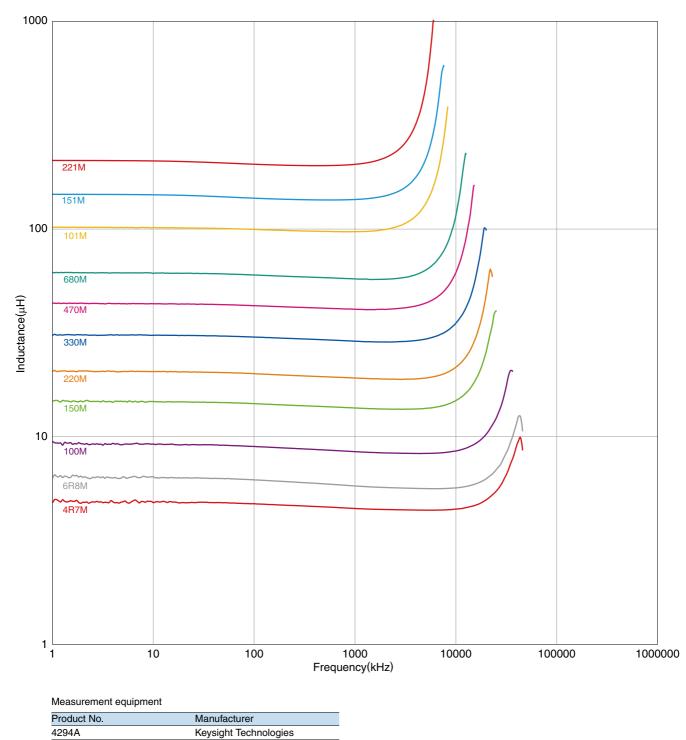
* Equivalent measurement equipment may be used.



SLF6028 type

L FREQUENCY CHARACTERISTICS

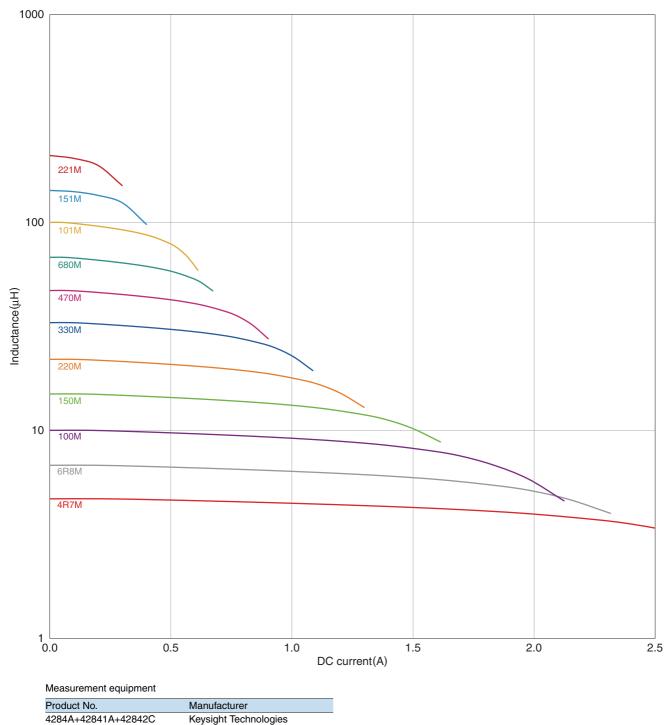
* Equivalent measurement equipment may be used.



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. (2/5) Please note that the contents may change without any prior notice due to reasons such as upgrading.

SLF6028 type

■ INDUCTANCE VS. DC BIAS CHARACTERISTICS



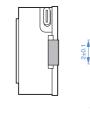
* Equivalent measurement equipment may be used.

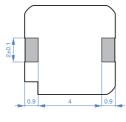
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SLF6028 type

SHAPE & DIMENSIONS

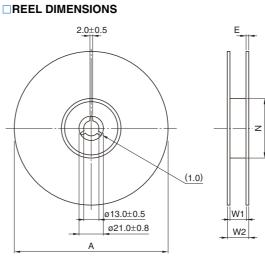






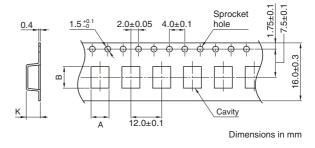
Dimensions in mm

PACKAGING STYLE



Dimensions in mm

TAPE DIMENSIONS



Туре	A	В	К
SLF6028	6.4	6.4	3.1

RECOMMENDED REFLOW PROFILE

RECOMMENDED LAND PATTERN



Dimensions in mm

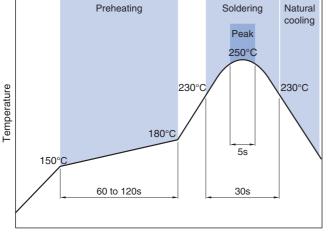
PACKAGE QUANTITY

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	0.3 g
*	Operating temperature range includes self-temperature rise.		

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



Time

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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.

▲ REMINDERS ○ The storage period is within 6 months. Be sure to follow the storage conditions (temperature: 5 to 30°C, humidity: 10 to 75% RH or less). If the storage period elapses, the soldering of the terminal electrodes may deteriorate. O 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 difference between the solder temperature and chip temperature does not exceed 150°C. O 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. O 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 thermal design. Carefully lay out the coil for the circuit board design of the non-magnetic shield type. A malfunction may occur due to magnetic interference. ○ Use a wrist band to discharge static electricity in your body through 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 delivery specifications. O The products listed on this catalog are intended for use in general electronic equipment (AV equipment, telecommunications equipment, home appliances, amusement equipment, computer equipment, personal equipment, office equipment, measurement equipment, industrial robots) under a normal operation and use condition. The products are not designed or warranted to meet the requirements of the applications listed below, whose performance and/or quality require a more stringent level of safety or reliability, or whose failure, malfunction or trouble could cause serious damage to society, person or property. If you intend to use the products in the applications listed below or if you have special requirements exceeding the range or conditions set forth in the each catalog, please contact us. (1) Aerospace/aviation equipment (8) Public information-processing equipment (2) Transportation equipment (cars, electric trains, ships, etc.) (9) Military equipment (3) Medical equipment (10) Electric heating apparatus, burning equipment (4) Power-generation control equipment (11) Disaster prevention/crime prevention equipment (12) Safety equipment (5) Atomic energy-related equipment (6) Seabed equipment (13) Other applications that are not considered general-purpose (7) Transportation control equipment 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.

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