INDUCTORS

⊗TDK

Inductors for power circuits Wound ferrite SLF series



SLF6028 type

FEATURES

O Magnetic shield type wound inductor for power circuits.

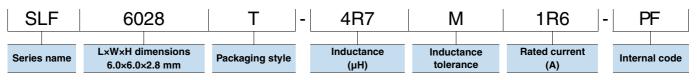
O Product lineup allows for various usages.

○ 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		L measuring frequency	DC resistance	Rated current*		Part No.
				Isat	Itemp	
(µH)	Tolerance	(kHz)	(Ω)±20%	(A)max.	(A)max.	
4.7	±20%	100	0.0284	1.6	2.5	SLF6028T-4R7M1R6-PF
6.8	±20%	100	0.0354	1.5	2.2	SLF6028T-6R8M1R5-PF
10	±20%	100	0.0532	1.3	1.8	SLF6028T-100M1R3-PF
15	±20%	100	0.0745	1	1.4	SLF6028T-150M1R0-PF
22	±20%	100	0.104	0.77	1.3	SLF6028T-220MR77-PF
33	±20%	100	0.148	0.69	1.1	SLF6028T-330MR69-PF
47	±20%	100	0.21	0.59	0.92	SLF6028T-470MR59-PF
68	±20%	100	0.29	0.5	0.78	SLF6028T-680MR50-PF
100	±20%	100	0.43	0.42	0.64	SLF6028T-101MR42-PF
150	±20%	100	0.65	0.34	0.5	SLF6028T-151MR34-PF
220	±20%	100	0.98	0.26	0.38	SLF6028T-221MR26-PF

Rated current: smaller value of either Isat 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.



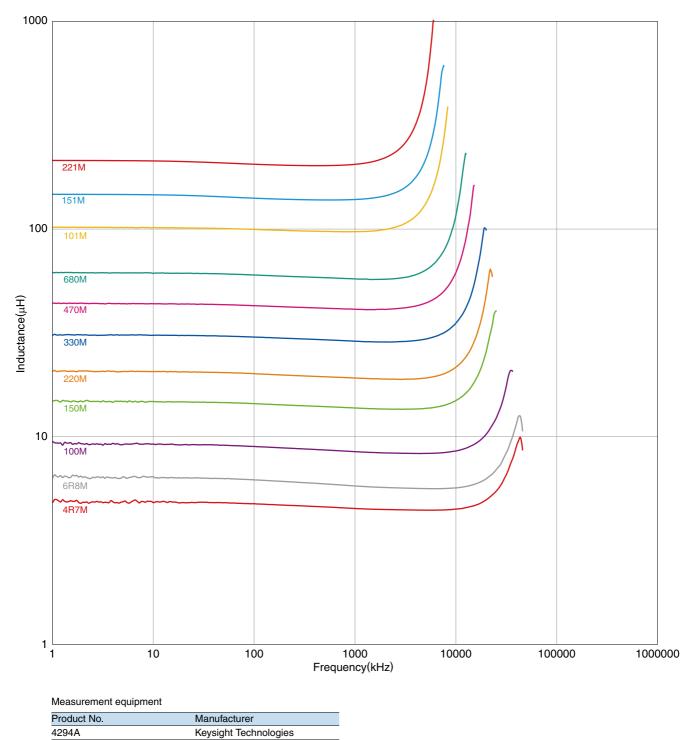
A Please be sure to request delivery specifications that provide further details on the features and specifications of the products for proper and safe use. (1/5) Please note that the contents may change without any prior notice due to reasons such as upgrading.

20180730

SLF6028 type

L FREQUENCY CHARACTERISTICS

* Equivalent measurement equipment may be used.

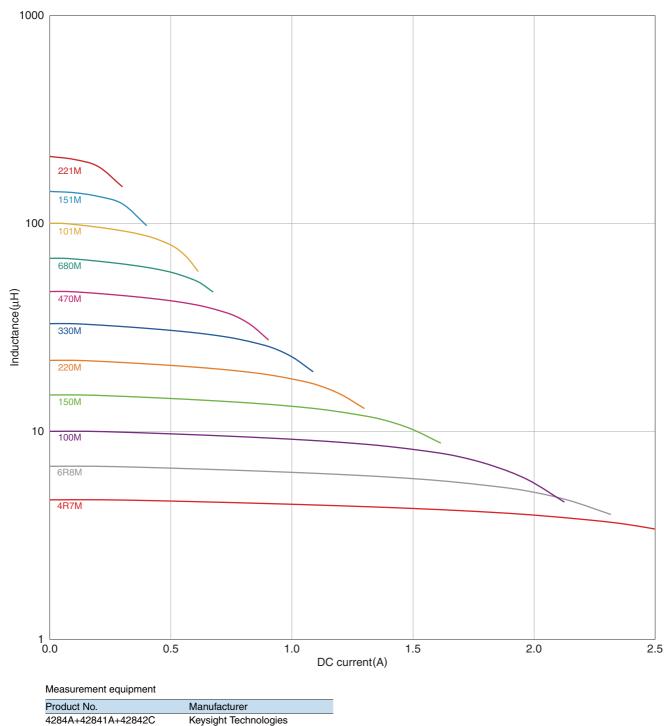


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SLF6028 type

INDUCTANCE VS. DC BIAS CHARACTERISTICS



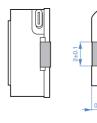
* Equivalent measurement equipment may be used.

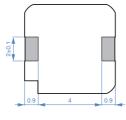
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SLF6028 type

SHAPE & DIMENSIONS

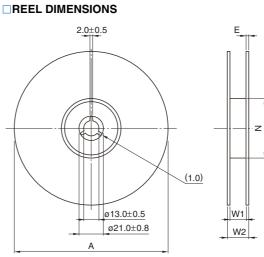






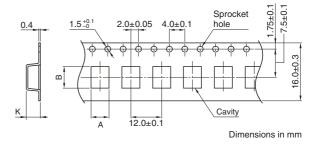
Dimensions in mm

PACKAGING STYLE



Dimensions in mm

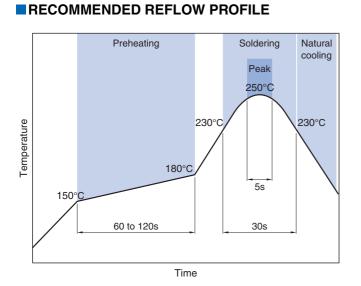
TAPE DIMENSIONS



Туре	A	В	К
SLF6028	6.4	6.4	3.1

RECOMMENDED 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 +105 °C	–40 to +105 °C	0.3 g
* Operating temperature range includes self-temperature rise		

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

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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 sto less).		
If the storage period elapses, the soldering of the terminal electrodes may deteriorate.		
\bigcirc Do not use or store in locations where there are conditions such as	s 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 	-	
O When embedding a printed circuit board where a chip is mounted the overall distortion of the printed circuit board and partial distortion		
 Self heating (temperature increase) occurs when the power is tu design. 	rned ON, so the tolerance should be sufficient for the set thermal	
 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 	

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)

Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

TDK:

<u>SLF6028T-100M1R3</u> <u>SLF6028T-6R8M1R5-PF</u> <u>SLF6028T-330MR69-PF</u> <u>SLF6028T-470MR59-PF</u> <u>SLF6028T-101MR42-PF</u> <u>SLF6028T-100M1R3-PF</u> <u>SLF6028T-4R7M1R6-PF</u> <u>SLF6028T-680MR50-PF</u> SLF6028T-220MR77-PF SLF6028T-151MR34-PF SLF6028T-221MR26-PF SLF6028T-820MR42-PF</u>