

Inductors for Power Circuits

Wound Ferrite

SLF Series

SLF7032 Type

SLF7032



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 these products.

REMINDERS ○ 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 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.). O 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. 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. O 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 (5) Atomic energy-related equipment (12) Safety 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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Overview of SLF7032 Type

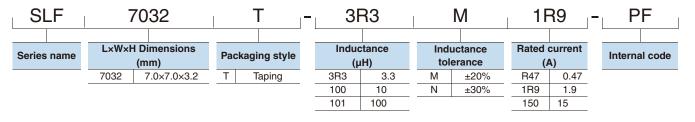
FEATURES

Magnetic shield type wound inductor for power circuits. O Product lineup allows for various usages.

APPLICATION

Thin-screen TV, LCDs, AV equipment, gaming equipment, other electrical devices

PART NUMBER CONSTRUCTION



OPERATING TEMPERATURE RANGE, PACKAGE QUANTITY, PRODUCT WEIGHT

	Temperat	ure range	Package quantity	Individual weight	
Туре	Operating temperature*	Storage temperature**			
	(° C)	(°C)	(pieces/reel)	(g)	
SLF7032	-40 to +105	-40 to +105	1000	0.4	

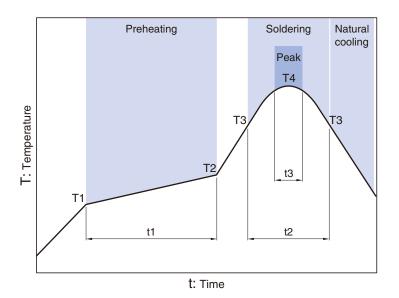
* Operating temperature range includes self-temperature rise.

** The Storage temperature range is for after the circuit board is mounted.

O RoHS Directive Compliant Product: See the following for more details related to RoHS Directive compliant products. http://product.tdk.com/en/environment/rohs/

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.

RECOMMENDED REFLOW PROFILE



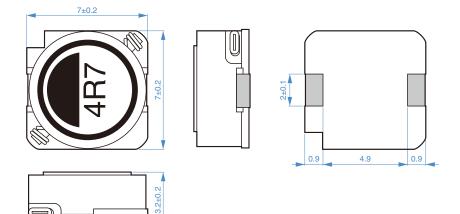
Soldering Preheating Peak Temp. Temp. Time Time Temp. Time T1 **T2 T**4 t1 ТЗ t2 t3 150°C 180°C 60 to 120s 230°C 250°C 30s 5s

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SLF7032 Type

SHAPE & DIMENSIONS



Dimensions in mm

RECOMMENDED LAND PATTERN



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Dimensions in mm

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SLF7032 Type

ELECTRICAL CHARACTERISTICS

CHARACTERISTICS SPECIFICATION TABLE

-		L measuring frequency	DC resistance	Rated current	Part No.
μH)	Tolerance	(kHz)	(Ω)	(A)max.	
3.3	±20%	100	0.023	1.9	SLF7032T-3R3M1R9-2PF
4.7	±20%	100	0.030	1.7	SLF7032T-4R7M1R7-2PF
6.8	±20%	100	0.041	1.6	SLF7032T-6R8M1R6-2PF
10	±20%	100	0.053	1.4	SLF7032T-100M1R4-2PF
15	±20%	100	0.075	1.1	SLF7032T-150M1R1-2PF
22	±20%	100	0.11	0.96	SLF7032T-220MR96-2PF
33	±20%	100	0.16	0.75	SLF7032T-330MR75-2PF
47	±20%	100	0.24	0.67	SLF7032T-470MR67-2PF
68	±20%	100	0.31	0.59	SLF7032T-680MR59-2PF
100	±20%	100	0.45	0.45	SLF7032T-101MR45-2PF
150	±20%	100	0.65	0.37	SLF7032T-151MR37-2PF
220	±20%	100	1.05	0.29	SLF7032T-221MR29-2PF
330	±20%	100	1.67	0.22	SLF7032T-331MR22-2PF
470	±20%	100	2.05	0.2	SLF7032T-471MR20-2PF
680	±20%	100	3.15	0.16	SLF7032T-681MR16-2PF
1000	±20%	100	4.78	0.13	SLF7032T-102MR13-2PF

\bigcirc Measurement equipment

Measurement item	Product No.	Manufacturer
L	4194A	Keysight Technologies
DC resistance	VP-2941A	Panasonic
Rated current Isat	4284A+42841A+42842C	Keysight Technologies

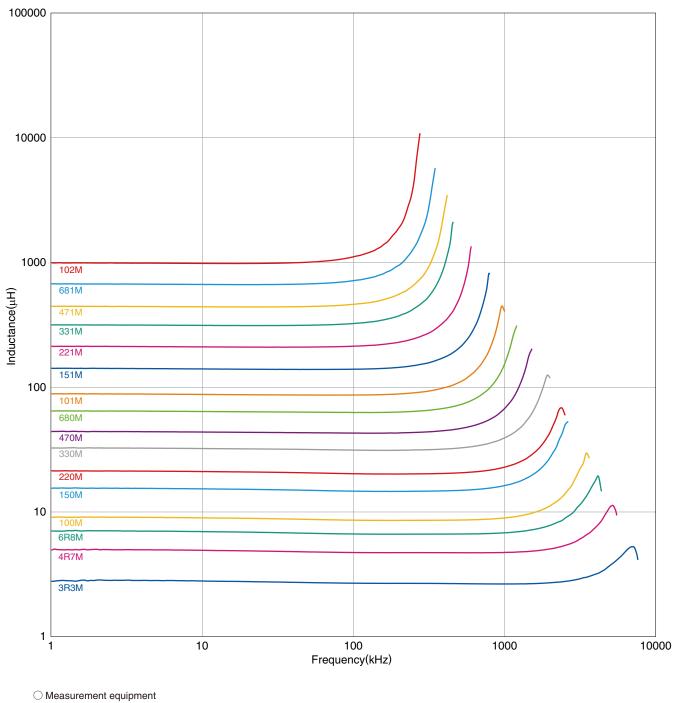
* Equivalent measurement equipment may be used.

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SLF7032 Type

ELECTRICAL CHARACTERISTICS

L FREQUENCY CHARACTERISTICS GRAPH



Product No.	Manufacturer
4294A	Keysight Technologies

* Equivalent measurement equipment may be used.

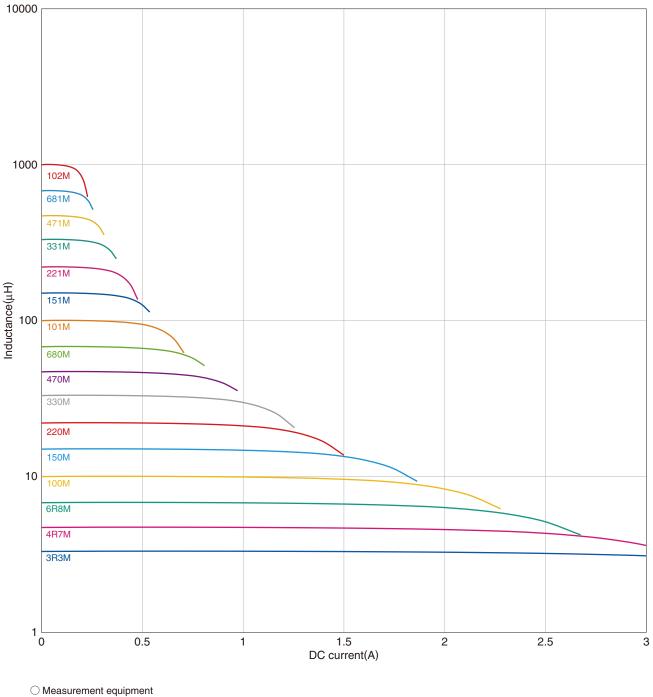
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SLF7032 Type

ELECTRICAL CHARACTERISTICS

□INDUCTANCE VS. DC BIAS CHARACTERISTICS GRAPH



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

* Equivalent measurement equipment may be used.

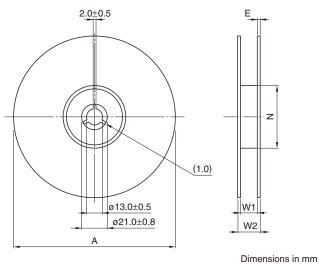
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SLF7032 Type

PACKAGING STYLE

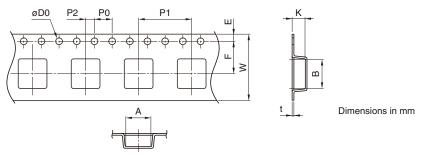
REEL DIMENSIONS



Туре	А	W1	W2	Ν	E
SLF7032	ø330	16.4	22.4	ø50	2

* These values are typical values.

TAPE DIMENSIONS



Туре	А	В	øD0	E	F	P0	P1	P2	W	K	t
SLF7032	7.4	7.6	1.5+0.1/-0	1.75±0.1	7.5±0.1	4.0±0.1	12.0±0.1	2.0±0.05	16.0±0.3	3.6	0.4

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