INDUCTORS

⊗TDK

Inductors for power circuits Wound ferrite SLF series



SLF7055 type

FEATURES

O Magnetic shield type wound inductor for power circuits.

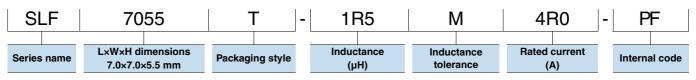
O Product lineup allows for various usages.

○ 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)	(m Ω)	(A)max.	(A)max.	
±30%	100	17.4±30%	6.2	4	SLF7055T-1R5N4R0-3PF
±30%	100	21.7±30%	5.3	3.5	SLF7055T-2R2N3R5-3PF
±30%	100	24±30%	4.3	3.3	SLF7055T-3R3N3R3-3PF
±30%	100	28±30%	3.6	3.1	SLF7055T-4R7N3R1-3PF
±30%	100	34±30%	3	2.8	SLF7055T-6R8N2R8-3PF
±20%	100	39.1±20%	2.6	2.5	SLF7055T-100M2R5-3PF
±20%	100	50.8±20%	2.1	2.2	SLF7055T-150M2R1-3PF
±20%	100	64.3±20%	1.7	2	SLF7055T-220M1R7-3PF
	±30% ±30% ±30% ±30% ±30% ±20% ±20% ±20%	Tolerance (kHz) ±30% 100 ±30% 100 ±30% 100 ±30% 100 ±30% 100 ±30% 100 ±30% 100 ±20% 100 ±20% 100	Tolerance (kHz) (mΩ) ±30% 100 17.4±30% ±30% 100 21.7±30% ±30% 100 24±30% ±30% 100 24±30% ±30% 100 28±30% ±30% 100 34±30% ±20% 100 39.1±20% ±20% 100 50.8±20% ±20% 100 64.3±20%	Tolerance (kHz) (mΩ) Isat (A)max. ±30% 100 17.4±30% 6.2 ±30% 100 21.7±30% 5.3 ±30% 100 24±30% 4.3 ±30% 100 28±30% 3.6 ±30% 100 34±30% 3 ±20% 100 39.1±20% 2.6 ±20% 100 64.3±20% 1.7	$\begin{array}{c c c c c c c c c c c c c c c c c c c $

* Rated current: smaller value of either Isat 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 30°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			

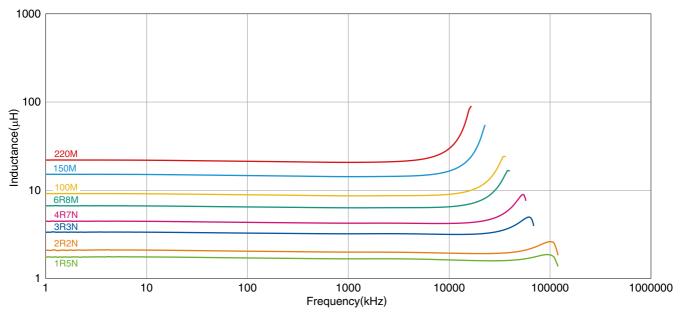
* Equivalent measurement equipment may be used.



Please be sure to request delivery specifications that provide further details on the features and specifications of the products for proper and safe use.
 (1/4)
 Please note that the contents may change without any prior notice due to reasons such as upgrading.
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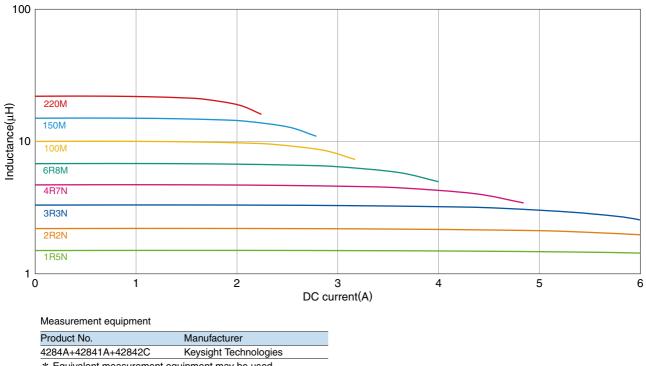
SLF7055 type

L FREQUENCY CHARACTERISTICS



Measurement equipment		
Product No.	Manufacturer	
4294A	Keysight Technologies	
* Equivalent measurement equipment may be used.		

■ INDUCTANCE VS. DC BIAS CHARACTERISTICS



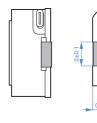
* Equivalent measurement equipment may be used.

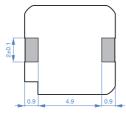
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SLF7055 type

SHAPE & DIMENSIONS

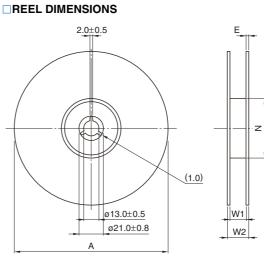






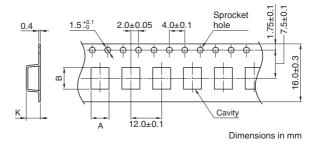
Dimensions in mm

PACKAGING STYLE



Dimensions in mm

TAPE DIMENSIONS



Туре	A	В	K
SLF7055	7.4	7.6	5.5

RECOMMENDED REFLOW PROFILE



Dimensions in mm

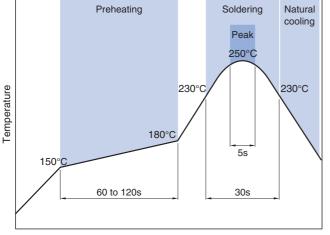
PACKAGE QUANTITY

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

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



Time

Please be sure to request delivery specifications that provide further details on the features and specifications of the products for proper and safe use.
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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 storal less). If the storage period elapses, the soldering of the terminal electrode 				
 Do not use or store in locations where there are conditions such as 				
 Before soldering, be sure to preheat components. The preheating temperature should be set so that the temperature does not exceed 150°C. 	difference between the solder temperature and chip temperature			
 Soldering corrections after mounting should be within the range of the If overheated, a short circuit, performance deterioration, or lifespan 	-			
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 turn design. 	ned ON, so the tolerance should be sufficient for the set thermal			
 Carefully lay out the coil for the circuit board design of the non-magn A malfunction may occur due to magnetic interference. 	netic shield type.			
\bigcirc Use a wrist band to discharge static electricity in your body through	the grounding wire.			
\bigcirc Do not expose the products to magnets or magnetic fields.				
O Do not use for a purpose outside of the contents regulated in the de	livery specifications.			
 The products listed on this catalog are intended for use in general ment, home appliances, amusement equipment, computer equipment, industrial robots) under a normal operation and use condition. The products are not designed or warranted to meet the requirement ity require a more stringent level of safety or reliability, or whose fail person or property. If you intend to use the products in the applications listed below or i set forth in the each catalog, please contact us. 	nent, personal equipment, office equipment, measurement equip- ts of the applications listed below, whose performance and/or qual- ure, malfunction or trouble could cause serious damage to society,			
 (1) Aerospace/aviation equipment (2) Transportation equipment (cars, electric trains, ships, etc.) (3) Medical equipment (4) Power-generation control equipment (5) Atomic energy-related equipment (6) Seabed equipment (7) Transportation control equipment When designing your equipment even for general-purpose applications tection circuit/device or providing backup circuits in your 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 s, you are kindly requested to take into consideration securing pro- 			

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