INDUCTORS

DK

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



SLF10145 type



FEATURES

O Magnetic shield type wound inductor for power circuits.

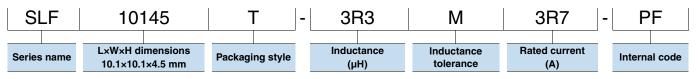
O Product lineup allows for various usages.

○ 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 curre	ent*	Part No.
				Isat	Itemp	
(µH)	Tolerance	(kHz)	(Ω)±20%	(A)max.	(A)typ.	
3.3	±30%	1	0.0161	4.9	3.7	SLF10145T-3R3N3R7-PF
5.6	±20%	1	0.0220	3.8	3.2	SLF10145T-5R6M3R2-PF
10	±20%	1	0.0364	3	2.5	SLF10145T-100M2R5-PF
15	±20%	1	0.0472	2.4	2.2	SLF10145T-150M2R2-PF
22	±20%	1	0.0591	2.1	1.9	SLF10145T-220M1R9-PF
33	±20%	1	0.0815	1.6	1.7	SLF10145T-330M1R6-PF
47	±20%	1	0.1	1.4	1.5	SLF10145T-470M1R4-PF
68	±20%	1	0.14	1.2	1.3	SLF10145T-680M1R2-PF
100	±20%	1	0.2	1	1.1	SLF10145T-101M1R0-PF
150	±20%	1	0.35	0.79	0.81	SLF10145T-151MR79-PF
220	±20%	1	0.47	0.65	0.7	SLF10145T-221MR65-PF
330	±20%	1	0.68	0.54	0.58	SLF10145T-331MR54-PF
470	±20%	1	1.03	0.47	0.47	SLF10145T-471MR47-PF
680	±20%	1	1.6	0.38	0.38	SLF10145T-681MR38-PF
1000	±20%	1	2.8	0.32	0.29	SLF10145T-102MR29-PF
1500	±20%	1	3.4	0.22	0.26	SLF10145T-152MR22-PF

* Rated current: smaller value of either lsat 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

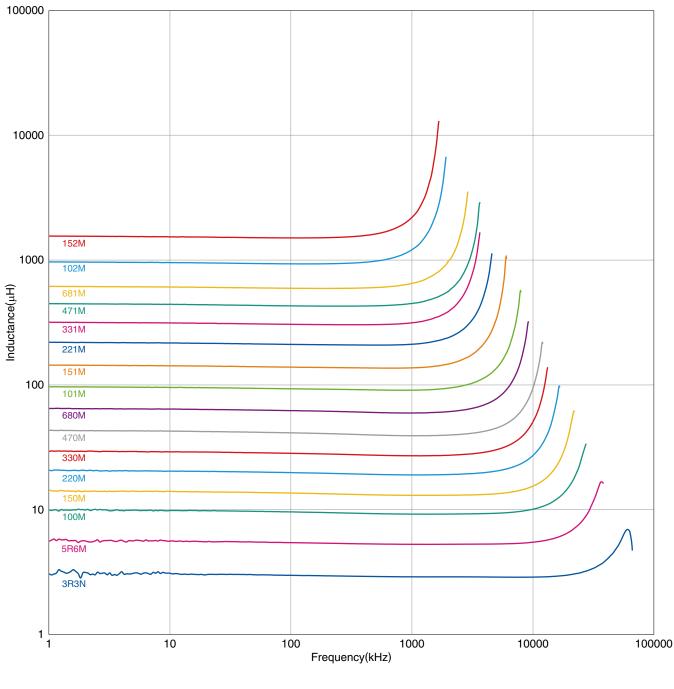
* Equivalent measurement equipment may be used.



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. (1/5)20191016

SLF10145 type

L FREQUENCY CHARACTERISTICS



Measurement equipment

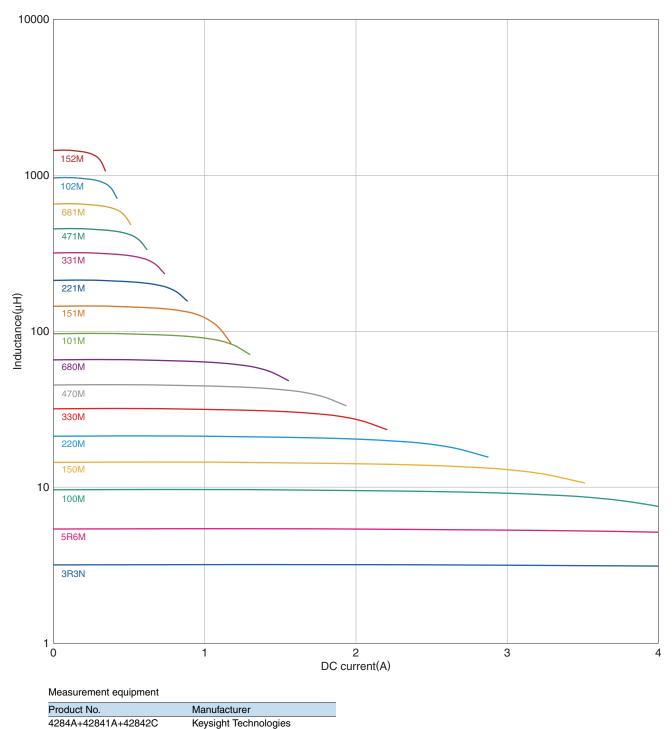
Product No.	Manufacturer	
4294A	Keysight Technologies	
de Enviè de la state en seconda en site en site en set de second		

* 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.
(2/5)
Please note that the contents may change without any prior notice due to reasons such as upgrading.
20191016

SLF10145 type

■ INDUCTANCE VS. DC BIAS CHARACTERISTICS

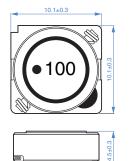


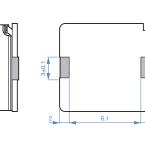
* Equivalent measurement equipment may be used.

Please be sure to request delivery specifications that provide further details on the features and specifications of the products for proper and safe use.
(3/5)
Please note that the contents may change without any prior notice due to reasons such as upgrading.
20191016

SLF10145 type

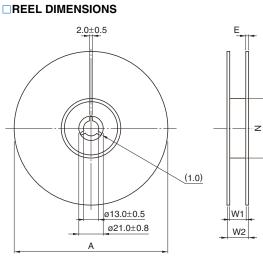
SHAPE & DIMENSIONS





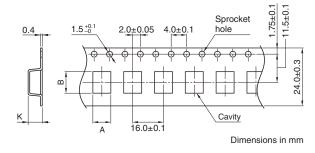
Dimensions in mm

PACKAGING STYLE



Dimensions in mm

TAPE DIMENSIONS



Туре	A	В	K
SLF10145	10.5	10.5	5

8

RECOMMENDED REFLOW PROFILE

RECOMMENDED LAND PATTERN



Dimensions in mm

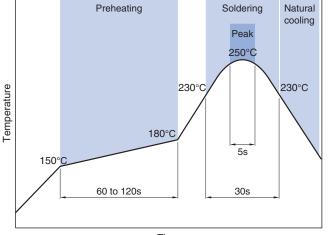
PACKAGE QUANTITY

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		1.3 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.
(4/5)
Please note that the contents may change without any prior notice due to reasons such as upgrading.
20191016

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 within 6 months. Be sure to follow the storage conditions (temperature: 5 to 30°C, humidity: 10 to 75% RH o 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	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.				
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.				
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-magn A malfunction may occur due to magnetic interference. 	etic 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.				
\bigcirc Do not use for a purpose outside of the contents regulated in the de	ivery specifications.			
 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. 				
 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 When designing your equipment even for general-purpose applications 	 (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 applications 			
tection circuit/device or providing backup circuits in your equipment.				

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) 20191016