way.	14, 2024	March.31	e Order Date I, 2026	Last Shipment Date December.31, 2026	* Please refer to our V	/eb site about replacement information.		
IN	<b>D U C T</b>	ORS				<b>⊗TD</b> k		
ductors /ound fe LF serie		circuits				RoHS REACH Halogen Free		
SLF1	12565	type	Product Portal	Search Simulation Model Selection Guide Tech Library Tech N				
FEATL	URES							
OProdu	uct lineup allo	ows for vario	us usages.	power circuits. 5°C (including self-ter	nperature r <mark>ise</mark> )			
Operating temperature range: -40 to +105°C (including self-temperature rise)								
APPLI	CATION							
OThin-	screen TVs. L	_CDs. AV ea	uipment. aa	aming equipment, oth	er electrical devices			
<u> </u>								
PART	NUMBER (	CONSTRU	CTION					
			_	- 2B0	M			
PART SLF	NUMBER (		CTION T	]- 2R0	M 6R2	- PF		
		65	_	Inductance In	M 6R2 ductance plerance (A)			
SLF	125 L×W×Hdin	65	<b>T</b> Packaging	Inductance In	ductance 定格? 流	Internal		
Series name	125 L×W×Hdin	65 nensions ×6.5 mm	T Packaging style	Inductance In (µH) to	ductance 定格? 流	Internal		
Series name	ACTERIST	65 nensions ×6.5 mm	T Packaging style	Inductance (μH) In to N TABLE	ductance olerance (A)	Internal		
SLF Series name	L×W×Hdin 12.5×12.5 ACTERIST	65 nensions ×6.5 mm ICS SPEC Measuring equency	T Packaging style IFICATIOI DC resis	Inductance In (μH) to N TABLE tance Rated cur Isat	ductance olerance (A) rrent*	Internal code		
SLF Series name CHAR	125 L×W×Hdin 12.5×12.5 ACTERIST LM fre erance (k % 1	65 nensions ×6.5 mm ICS SPEC Measuring	T Packaging style	Inductance (μH) In to N TABLE tance Rated cur /ο (A)max. 10	ductance plerance 定格? 浙 (A)	Internal code		
SLF Series name CHAR	125 L×W×Hdin 12.5×12.5 ACTERIST MACTERIST	65 nensions ×6.5 mm ICS SPEC Measuring equency	T Packaging style IFICATIO DC resis ( <u>()±20%</u> 0.0117 0.015	Inductance (μH) In to N TABLE tance Rated cur /ο (A)max. 10 7.3	ductance plerance rrent* (A) Ltemp (A)typ 6.2 5.5	Part No. SLF12565T-2R0N6R2-PF SLF12565T-4R2N5R5-PF		
SLF Series name CHAR 4) Tole ±300 2 ±300 ±300	125 L×W×Hdin 12.5×12.5 ACTERIST ACTERIST	65 nensions ×6.5 mm ICS SPEC Measuring equency	T Packaging style IFICATIO DC resis (Ω)±20% 0.0117 0.015 0.0177	Inductance (μH) In to N TABLE tance Rated cur /ο (A)max. 10 7.3 5.7	ductance plerance rrent* (A)	Part No. SLF12565T-2R0N6R2-PF SLF12565T-4R2N5R5-PF SLF12565T-7R0N5R0-PF		
SLF Series name CHAR 4) Tole ±300 2 ±300 ±300 ±200	125 L×W×Hdin 12.5×12.5 ACTERIST free erance (k % 1 % 1 % 1	65 nensions ×6.5 mm ICS SPEC Measuring equency	T Packaging style IFICATIO DC resis (Ω)±20% 0.0117 0.015 0.0177 0.0202	Inductance (μH) In to N TABLE tance Rated cur /ο (A)max. 10 7.3 5.7 5	ductance plerance rrent* (A)	Part No. SLF12565T-2R0N6R2-PF SLF12565T-4R2N5R5-PF SLF12565T-7R0N5R0-PF SLF12565T-100M4R8-PE		
SLF Series name CHAR 4) Tole ±30 <sup>0</sup> ±30 <sup>0</sup> ±20 <sup>0</sup> ±20 <sup>0</sup>	125 L×W×Hdin 12.5×12.5 ACTERIST ACTERIST free mance (k % 1 % 1 % 1 % 1 % 1	65 nensions ×6.5 mm ICS SPEC Measuring equency	T Packaging style IFICATIO DC resis (Ω)±20% 0.0117 0.015 0.0177 0.0202 0.0237	Inductance (μH) In to N TABLE tance Rated cur /ο (A)max. 10 7.3 5.7 5 4.2	ductance plerance rrent* (A)	Part No.          SLF12565T-2R0N6R2-PF         SLF12565T-4R2N5R5-PF         SLF12565T-7R0N5R0-PF         SLF12565T-100M4R8-PF         SLF12565T-150M4R2-PF		
SLF Series name CHAR 4) Tole ±300 ±200 ±200 ±200 ±200 ±200 ±200 ±200	125 L×W×Hdin 12.5×12.5 ACTERIST ACTERIST free grance (k % 1 % 1 % 1 % 1 % 1 % 1	65 nensions ×6.5 mm ICS SPEC Measuring equency	T           Packaging style           IFICATIO           DC resis           (Ω)±20%           0.0117           0.015           0.0177           0.0202           0.0237           0.0316	Inductance (μH) In to N TABLE tance Rated cur /ο (A)max. 10 7.3 5.7 5 4.2 3.5	ductance plerance rrent*	Internal code           Part No.           SLF12565T-2R0N6R2-PF           SLF12565T-4R2N5R5-PF           SLF12565T-7R0N5R0-PF           SLF12565T-100M4R8-PF           SLF12565T-150M4R2-PF           SLF12565T-220M3R5-PF		
SLF Series name CHAR 4) Tole ±30 <sup>0</sup> ±20 <sup>0</sup>	125 L×W×Hdin 12.5×12.5: ACTERIST LM free erance (k % 1 % 1 % 1 % 1 % 1 % 1 % 1	65 nensions ×6.5 mm ICS SPEC Measuring equency	T           Packaging style           IFICATION           DC resis           (Ω)±209           0.0117           0.015           0.0177           0.0237           0.0316           0.0406	Inductance (μH)         In- to to           N TABLE         In- to           tance         Rated curves           \overline{0}         Isat (A)max.           10         7.3           5.7         5           4.2         3.5           2.8         2.8	ductance plerance rrent* (A)	Internal code           Part No.           SLF12565T-2R0N6R2-PF           SLF12565T-4R2N5R5-PF           SLF12565T-7R0N5R0-PF           SLF12565T-100M4R8-PF           SLF12565T-150M4R2-PF           SLF12565T-220M3R5-PF           SLF12565T-330M2R8-PF		
SLF Series name CHAR 4) Tole ±300 ±300 ±200 ±0	125 L×W×Hdin 12.5×12.5: ACTERIST MACTERIST In the second s	65 nensions ×6.5 mm ICS SPEC Measuring equency	T           Packaging style           IFICATION           DC resis           (Ω)±209           0.0117           0.015           0.0177           0.0202           0.0237           0.0316           0.0406           0.0578	Inductance (μH)         In- to tance           N TABLE         In- to (μH)           tance         Rated current (a) max.           10         7.3           5.7         5           4.2         3.5           2.8         2.4	ductance plerance rrent* (A) 6.2 5.5 5 4.8 4.4 3.8 3.4 2.8	Internal code           Part No.           SLF12565T-2R0N6R2-PF           SLF12565T-4R2N5R5-PF           SLF12565T-7R0N5R0-PF           SLF12565T-100M4R8-PF           SLF12565T-150M4R2-PF           SLF12565T-220M3R5-PF           SLF12565T-330M2R8-PF           SLF12565T-470M2R4-PF		
SLF Series name CHAR 4) Tole ±300 ±300 ±200	125 L×W×Hdin 12.5×12.5: ACTERIST MACTERIST Machine Mac	65 nensions ×6.5 mm ICS SPEC Measuring equency	T           Packaging style           IFICATION           DC resis           (Ω)±209           0.0117           0.015           0.0177           0.0202           0.0237           0.0316           0.0406           0.0578           0.0787	Inductance (μH)         In- to to to tance           N TABLE         Rated current (a) max.           10         7.3           5.7         5           4.2         3.5           2.8         2.4           2         2	Itemp (A)           rrent*           6.2           5.5           5           4.8           4.4           3.8           3.4           2.8           2.4	Internal code           Part No.           SLF12565T-2R0N6R2-PF           SLF12565T-4R2N5R5-PF           SLF12565T-7R0N5R0-PF           SLF12565T-100M4R8-PF           SLF12565T-150M4R2-PF           SLF12565T-220M3R5-PF           SLF12565T-330M2R8-PF           SLF12565T-470M2R4-PF           SLF12565T-680M2R0-PF		
SLF Series name CHAR 4) Tole ±300 ±200 ±200 ±200 ±200 ±200 ±200 3 ±200 0 ±200 0 ±200	125 L×W×Hdin 12.5×12.5: ACTERIST MACTERIST Marance (k % 1 % 1 % 1 % 1 % 1 % 1 % 1 % 1 % 1 % 1	65 nensions ×6.5 mm ICS SPEC Measuring equency	T Packaging style IFICATION DC resis (Ω)±209 0.0117 0.015 0.0177 0.0202 0.0237 0.0316 0.0406 0.0406 0.0578 0.0787 0.123	Inductance (μH)         In- to tance           N TABLE         Rated currents           tance         Rated currents           /o         Isat (A)max.           10         7.3           5.7         5           4.2         3.5           2.8         2.4           2         1.6	Itemp (A)           rrent*           6.2           5.5           5           4.8           4.4           3.8           3.4           2.8           2.4	Internal code           Part No.           SLF12565T-2R0N6R2-PF           SLF12565T-4R2N5R5-PF           SLF12565T-4R2N5R0-PF           SLF12565T-1200M4R8-PF           SLF12565T-150M4R2-PF           SLF12565T-330M2R8-PF           SLF12565T-330M2R8-PF           SLF12565T-470M2R4-PF           SLF12565T-680M2R0-PF           SLF12565T-101M1R6-PF		
SLF Series name CHAR 4) Tole ±300 ±300 ±200 ±00 ±	125 L×W×Hdin 12.5×12.5: ACTERIST MACTERIST Market M	65 nensions ×6.5 mm ICS SPEC Measuring equency Hz)	T Packaging style IFICATION DC resis (Ω)±20% 0.0117 0.015 0.0117 0.0202 0.0237 0.0316 0.0406 0.0406 0.0578 0.0787 0.123 0.273	Inductance (μH)         In to           N TABLE         In to           tance         Rated curves           λ0         7.3           5.7         5           4.2         3.5           2.8         2.4           2.4         2           1.6         1	Itemp (A)           rrent*           6.2           5.5           5           4.8           4.4           3.8           3.4           2.8           2.4	Internal code           Part No.           SLF12565T-2R0N6R2-PF           SLF12565T-4R2N5R5-PF           SLF12565T-7R0N5R0-PF           SLF12565T-100M4R8-PF           SLF12565T-150M4R2-PF           SLF12565T-220M3R5-PF           SLF12565T-330M2R8-PF           SLF12565T-470M2R4-PF           SLF12565T-680M2R0-PF		
SLF Series name CHAR 4) Tole ±300 ±300 ±200 ±200 ±200 ±200 3 ±200 3 ±200 3 ±200 3 ±200 7 ±200 8 ±200 8 ±200 7 ±200 8 ±200	125 L×W×Hdin 12.5×12.5 ACTERIST ACTERIST MACTERIST Marticle Martic	65 nensions ×6.5 mm ICS SPEC Veasuring equency Hz) Hz)	T           Packaging style           IFICATION           DC resis           (Ω)±20%           0.0117           0.015           0.0177           0.0202           0.0237           0.0316           0.0406           0.0578           0.0787           0.123           0.273	Inductance (μH)         In to           N TABLE         In to           tance         Rated curves           /o         Isat (A)max.           10         7.3           5.7         5           4.2         3.5           2.8         2.4           2         1.6           1         1.0	ductance plerance rrent*	Internal code           Part No.           SLF12565T-2R0N6R2-PF           SLF12565T-4R2N5R5-PF           SLF12565T-4R2N5R0-PF           SLF12565T-1200M4R8-PF           SLF12565T-150M4R2-PF           SLF12565T-330M2R8-PF           SLF12565T-330M2R8-PF           SLF12565T-470M2R4-PF           SLF12565T-680M2R0-PF           SLF12565T-101M1R6-PF		
SLF Series name CHAR CHAR 4) Tole ±300 ±300 ±200 ±200 ±200 ±200 0 ±200 0 ±200 Rated cu Isat: Whe	125           L×W×Hdin 12.5×12.5           ACTERIST           ACTERIST           Mark           %           1           %           1           %           1           %           1           %           1           %           1           %           1           %           1           %           1           %           1           %           1           %           1           %           1           %           1           %           1           %           1           %           1           %           1           %           1           %           %           %           %           %           %           %           %           %           %	65 nensions x6.5 mm ICS SPEC Veasuring equency Hz)	T           Packaging style           IFICATION           DC resis           (Ω)±20%           0.0117           0.015           0.0177           0.0202           0.0237           0.0316           0.0406           0.0578           0.0787           0.123           0.273           Isat or Itempohange rate (	Inductance (μH)         In to           N TABLE         In to           tance         Rated curves           λ0         7.3           5.7         5           4.2         3.5           2.8         2.4           2.4         2           1.6         1	ductance plerance rrent*	Internal code           Part No.           SLF12565T-2R0N6R2-PF           SLF12565T-4R2N5R5-PF           SLF12565T-4R2N5R0-PF           SLF12565T-1200M4R8-PF           SLF12565T-150M4R2-PF           SLF12565T-330M2R8-PF           SLF12565T-330M2R8-PF           SLF12565T-470M2R4-PF           SLF12565T-680M2R0-PF           SLF12565T-101M1R6-PF		

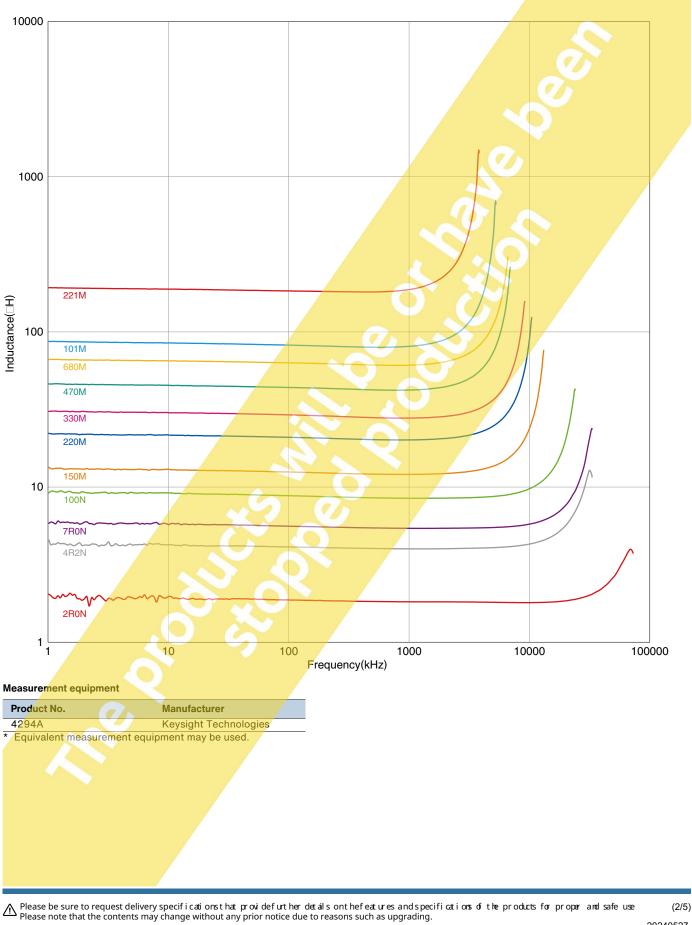
Measurement item	Product No.	Manufacturer
L	4194A	Keysight Technologies
DC resistance	VP-2941A	Panasonic
Rated current Isat	4284A+42841A+42842C	Keysight Technologies
* Equivalent measurement equ		





# SLF12565 type

#### L FREQUENCY CHARACTERISTICS

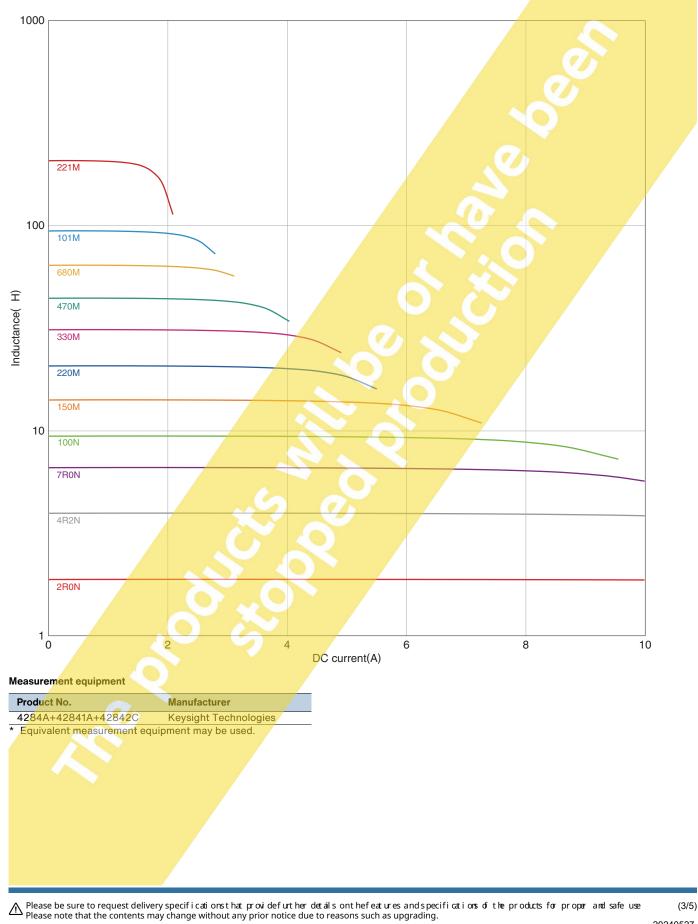


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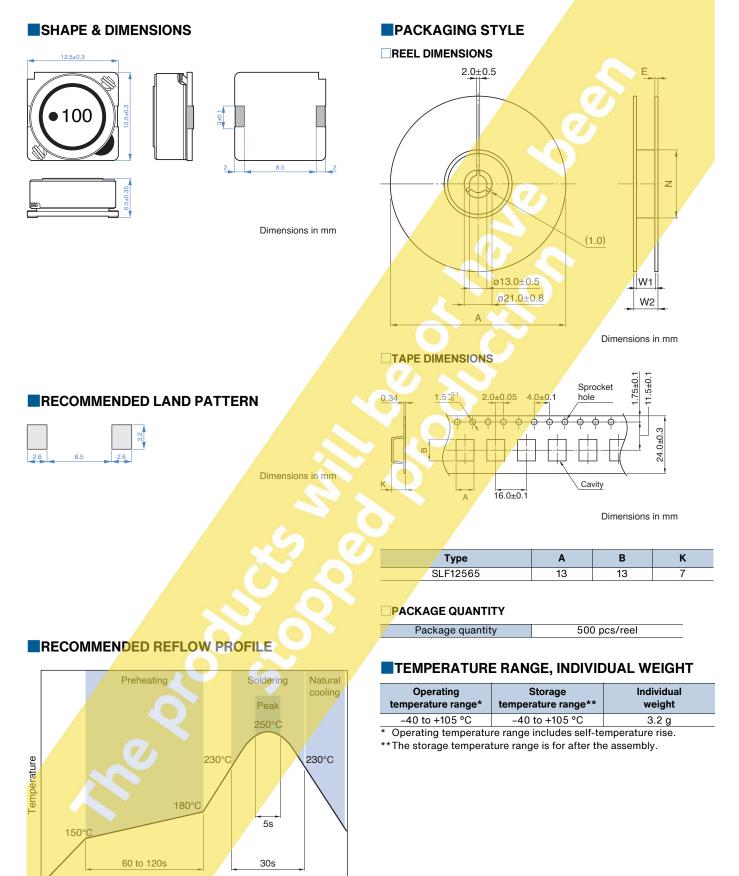
# SLF12565 type

#### **INDUCTANCE VS. DC BIAS CHARACTERISTICS**



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## SLF12565 type



Please be sure to request delivery specifications that providefurt her 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.

Time

#### INDUCTORS

#### ⊗TDK

### **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

OThe 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.

- ODo not use or store in locations where there are conditions such as gas corrosion (salt, acid, alkali, etc.).
- OBefore 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.
- Osoldering 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.
- Owhen 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.
- Ouse a wrist band to discharge static electricity in your body through the grounding wire.
- ODo not expose the products to magnets or magnetic fields.
- Ob not use for a purpose outside of the contents regulated in the delivery specifications.
- OThe 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
- (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
- (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

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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