• Please refer to our Web site about replacement information.

INDUCTORS



Inductors for power circuits Wound ferrite RLF series









RLF12560 type













FEATURES

- Magnetic shield type wound inductor for power circuits.
- Using flat-square wire for winding, that is rising space factor, these inductors can reduce DC resistance and suppress calorific value.
- Operating temperature range: -40 to +105°C (including self-temperature rise)

APPLICATION

LCDs, AV equipment, gaming equipment, industrial equipment, other electrical devices

■ PART NUMBER CONSTRUCTION

RLF	12560	Т	-	1R0	K	N	140
Series name	L×W×H dimensions 12.5×12.8×6.0 mm	Packaging style		Inductance (µH)		Inductance tolerance	Rated current (A)

■ CHARACTERISTICS SPECIFICATION TABLE

L		L measur	ing frequ <mark>ency</mark>	DC resistance		Rated curre	ent*	Part No.
						Isat	Itemp	
(μH)	Tolerance	(kHz)		(mΩ)±20%		(A)max.	(A)max.	
1.0	±30%	100		2.8		18.5	14.4	RLF12560T-1R0N140
1.9	±30%	100		3.6		15.6	12.7	RLF12560T-1R9N120
2.7	±30%	100		4.5		14.4	11.5	RLF12560T-2R7N110
4.2	±30%	100		7.4		10.2	10.0	RLF12560T-4R2N100
5.6	±30%	100		8.5	Y	9.7	9.2	RLF12560T-5R6N9R2
7.8	±30%	100		10.2		8.2	8.4	RLF12560T-7R8N8R2
10	±20%	100		12.4		7.5	7.8	RLF12560T-100M7R5

^{*} Rated current: smaller value of either Isat or Itemp.

Isat: When based on the inductance change rate (50% below the nominal value)

Itemp: When based on the temperature increase (temperature increase of 40°C by self heating)

Measurement equipment

Measurement item	Product No.	Manufacturer
L	4263B	Keysight Technologies
DC resistance	VP-2941A	Panasonic
Rated current Isat	4285A+42841A+42842C	Keysight Technologies

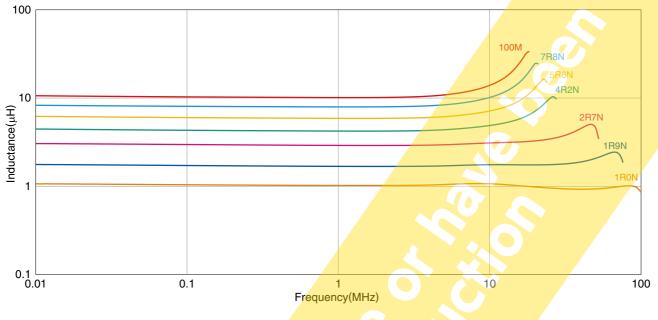
^{*} Equivalent measurement equipment may be used.





RLF12560 type

L FREQUENCY CHARACTERISTICS

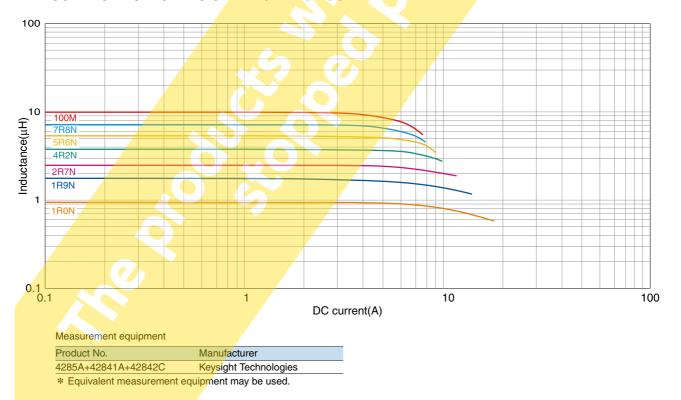


Measurement equipment

Product No.	Manufacturer
4294A	Keysight Technologies

^{*} Equivalent measurement equipment may be used.

■INDUCTANCE VS. DC BIAS CHARACTERISTICS



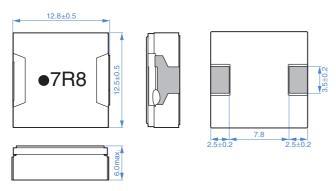
(2/4)

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.



RLF12560 type

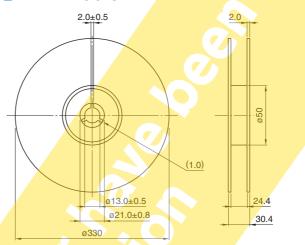
■SHAPE & DIMENSIONS



Dimensions in mm

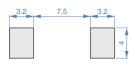
■ PACKAGING STYLE

□REEL DIMENSIONS



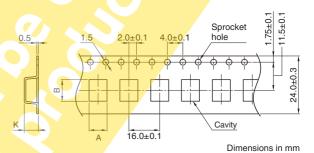
Dimensions in mm

■ RECOMMENDED LAND PATTERN



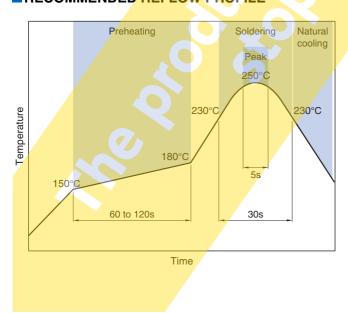
Dimensions in mm

TAPE DIMENSIONS



Type	Α	В	K
RLF12560	13.2	13.5	6.2

RECOMMENDED REFLOW PROFILE



PACKAGE QUANTITY

/	
Package guantity	500 pcs/reel

■TEMPERATURE RANGE, INDIVIDUAL WEIGHT

Operating	Storage	Individual	
temperature range*	temperature range**	weight	
–40 to 105 °C	–40 to 105 °C	4000 mg	

^{*} Operating temperature range includes self-temperature rise.

^{**} The storage temperature range is for after the assembly.



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 The 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. On 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. Oself 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. Use a wrist band to discharge static electricity in your body through the grounding wire. On not expose the products to magnets or magnetic fields. On not use for a purpose outside of the contents regulated in the delivery specifications. The products listed on this catalog are intended for use in general electronic equipment (AV equipment, telecommunications equip-

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.

ment, home appliances, amusement equipment, computer equipment, personal equipment, office equipment, measurement equip-

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.)

ment, industrial robots) under a normal operation and use condition.

- (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.

单击下面可查看定价,库存,交付和生命周期等信息

>>TDK Corporation