

O Thin-screen TVs, LCDs, DVC, DSC, HDD, AV equipment, gaming equipment, other electrical devices

PART NUMBER CONSTRUCTION

LTF	5022	T -	-	1R2	N	4F	R2	-	LC
Series name	L×W×H dimensions 5.0×5.2×2.2 mm	Packaging style		nductance (µH)	Inductance tolerance	Rated o			Internal code

CHARACTERISTICS SPECIFICATION TABLE

L		Measuring frequency	DC resistand	ce	Rated curre	ent*	Part No.
					Isat	Itemp	
(µH)	Tolerance	(kHz)	(Ω) max .	(Ω)typ.	(A)max.	(A)typ.	
1.2	±30%	100	0.025	0.021	4.3	4.2	LTF5022T-1R2N4R2-LC
1.8	±30%	100	0.032	0.028	3.6	3.8	LTF5022T-1R8N3R6-LC
2.2	±30%	100	0.040	0.036	3.2	3.4	LTF5022T-2R2N3R2-LC
3.3	±30%	100	0.060	0.054	2.5	2.7	LTF5022T-3R3N2R5-LC
4.7	±30%	100	0.081	0.073	2.0	2.3	LTF5022T-4R7N2R0-LC
10.0	±20%	100	0.16	0.14	1.4	1.7	LTF5022T-100M1R4-LC
22.0	±20%	100	0.32	0.28	0.9	1.2	LTF5022T-220MR98-LC

* Rated current(max.): smaller value of either Isat or Itemp.

Isat: When based on the inductance change rate (30% below the initial value)

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

Measurement equipment

• •		
Measurement item	Product No.	Manufacturer
L	4285A	Keysight Technologies
DC resistance	VP-2941A	Panasonic
Rated current Isat	4285A+42841A+42842	12C Keysight Technologies
Nr. Equipped and manager	wave and a surface and we are been used	al

Equivalent measurement equipment may be used

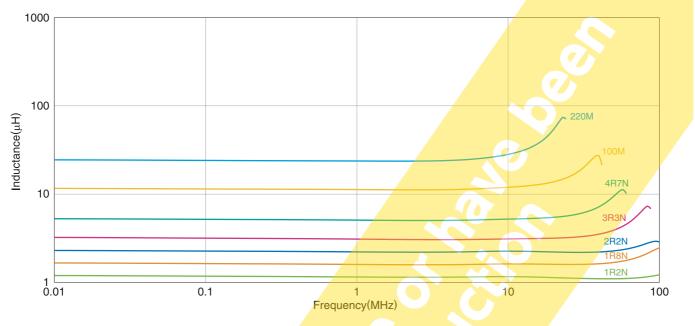


20200604

公TDK

LTF5022 type

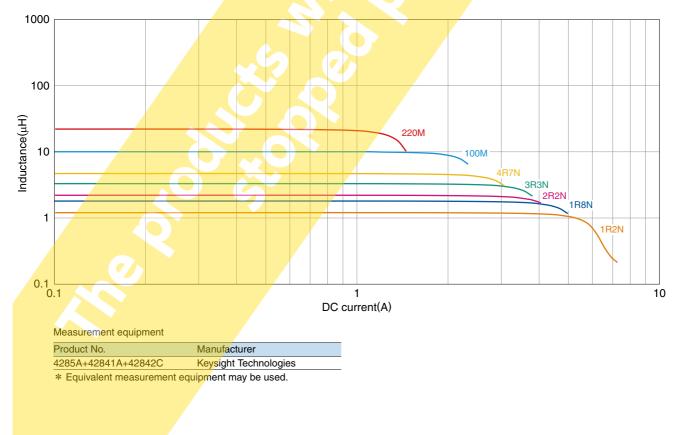
L FREQUENCY CHARACTERISTICS



Measurement equipment

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

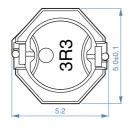
■INDUCTANCE VS. DC BIAS CHARACTERISTICS

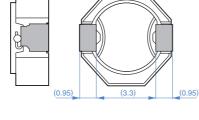


A Please be sure to request delivery specifications that provide further details on the features and specifications of the products for proper and safe use. Please note that the contents may change without any prior notice due to reasons such as upgrading. (2/4)

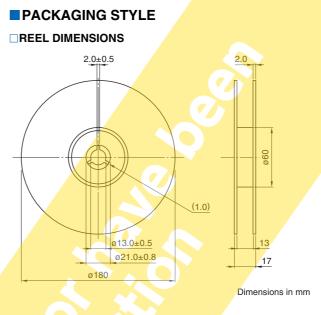
LTF5022 type

SHAPE & DIMENSIONS





Dimensions in mm

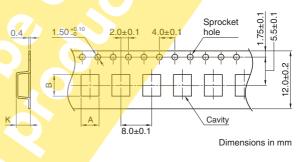


TAPE DIMENSIONS

RECOMMENDED LAND PATTERN

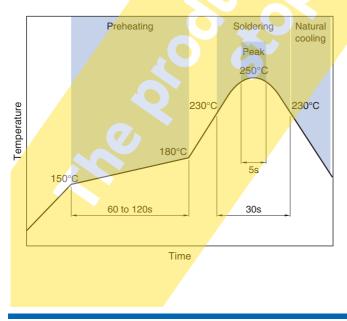


Dimensions in mm



Туре	A	В	К
LTF5022	5.25	5.25	2.3

RECOMMENDED REFLOW PROFILE



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	170 mg	
*	Operating temperature range includes self-temperature rise.			

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

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. (3/4)

20200604

INDUCTORS

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.

A REM	INDERS				
 The storage period is less than 6 months. Be sure to follow the stores. If the storage period elapses, the soldering of the terminal electron. 					
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 If overheated, a short circuit, performance deterioration, or lifespare 					
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-mail A malfunction may occur due to magnetic interference. 	gnetic shield type.				
◯ Use a wrist band to discharge static electricity in your body throug	h 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 c	lelivery specifications.				
ment, 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 far person or property.	ment, personal equipment, office equipment, measurement equip-				
 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 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 				

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