INDUCTORS

MLJ1608 type

NFC circuit/inductors for standard circuits **Multilayer ferrite MLJ** series



公TDK

FEATURES

O Response to large currents with newly-developed ferrite materials.

O Narrow tolerance response with high-accuracy multiple layers.

○ Significant reductions of high-frequency loss due to the adoption of low-loss materials.

○ Operating temperature range: -55 to +125°C

APPLICATION

ONFC circuits for devices such as smartphones and PCs, and power lines for electronic devices. O Application guides: Smart phones/tablets

PART NUMBER CONSTRUCTION

MLJ	1608	W R16		\bigtriangleup	Т	000
Series name	L×W×H dimensions 1.6×0.8×0.8 mm	Characteristics	Inductance (nH)	Inductance tolerance	Packaging style	Internal code

CHARACTERISTICS SPECIFICATION TABLE

L		Q	L, Q measu conditions	ring	Self-resonant frequency		DC resistance	Rated current			Part No.
			Frequency	Current				Isat	Isat	Itemp	
(nH)	Tolerance	min.	(MHz)	(mA)	(MHz)min.	(MHz)typ.	(Ω)max.	(mA)max.	(mA)typ.	(mA)max.	
100	±5% ±10%	15	25	1.0	450	600	0.13	700	900	800	MLJ1608WR10JT000 MLJ1608WR10KT000
120	±5% ±10%	15	25	1.0	400	520	0.15	650	800	750	MLJ1608WR12JT000 MLJ1608WR12KT000
150	±5% ±10%	15	25	1.0	350	470	0.16	600	750	700	MLJ1608WR15JT000 MLJ1608WR15KT000
160	±5% ±10%	15	25	1.0	330	450	0.16	600	750	700	MLJ1608WR16JT000 MLJ1608WR16KT000
180	±5% ±10%	15	25	1.0	320	440	0.20	600	700	650	MLJ1608WR18JT000 MLJ1608WR18KT000
220	±5% ±10%	15	25	1.0	290	400	0.26	550	700	600	MLJ1608WR22JT000 MLJ1608WR22KT000
270	±5% ±10%	15	25	1.0	260	350	0.29	550	650	550	MLJ1608WR27JT000 MLJ1608WR27KT000
330	±5% ±10%	15	25	1.0	230	320	0.32	500	650	500	MLJ1608WR33JT000 MLJ1608WR33KT000
390	±5% ±10%	15	25	1.0	210	290	0.37	450	600	450	MLJ1608WR39JT000 MLJ1608WR39KT000
470	±5% ±10%	15	25	1.0	190	260	0.50	400	600	400	MLJ1608WR47JT000 MLJ1608WR47KT000
560	±5% ±10%	15	25	1.0	170	230	0.52	400	550	400	MLJ1608WR56JT000 MLJ1608WR56KT000

Measurement equipment

Measurement item	Product No.	Manufacturer		
L, Q	4294A+16034G	Keysight Technologies		
Self-resonant frequency	E4991A	Keysight Technologies		
DC resistance	Type-7561	Yokogawa		



* Equivalent measurement equipment may be used.

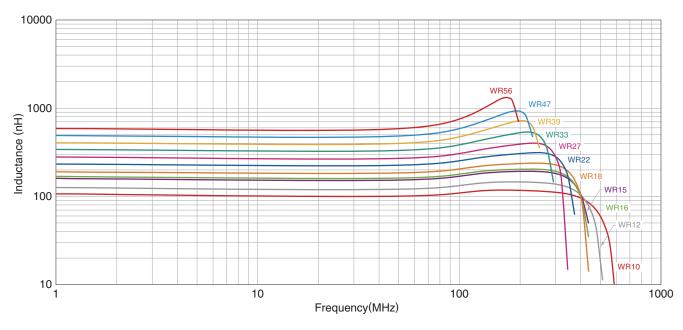
Please be sure to request delivery specifications that provide further details on the features and specifications of the products for proper and safe use. Please note that the contents may change without any prior notice due to reasons such as upgrading. (1/4)

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INDUCTORS

MLJ1608 type

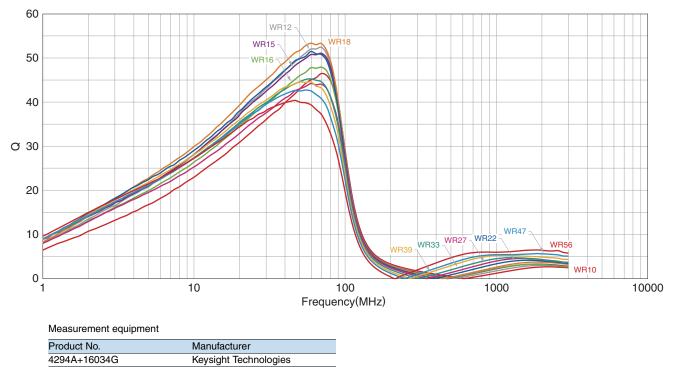
L FREQUENCY CHARACTERISTICS



Measurement equipment

Product No.	Manufacturer			
4294A+16034G	Keysight Technologies			
* Equivalent measurement equipment may be used.				

Q FREQUENCY CHARACTERISTICS

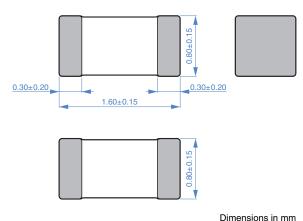


* Equivalent measurement equipment may be used.

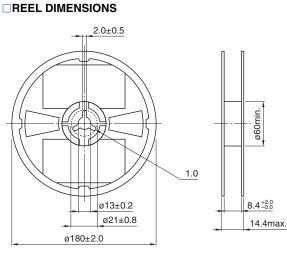
Please be sure to request delivery specifications that provide further details on the features and specifications of the products for proper and safe use. (2/4) Please note that the contents may change without any prior notice due to reasons such as upgrading.

MLJ1608 type

SHAPE & DIMENSIONS

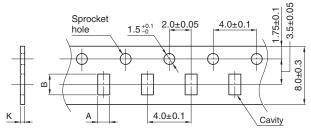


PACKAGING STYLE

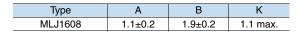


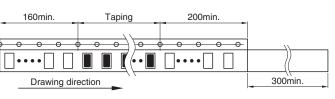
Dimensions in mm

TAPE DIMENSIONS



Dimensions in mm





Dimensions in mm

PACKAGE QUANTITY Package quantity

4000 pcs/reel

TEMPERATURE RANGE, INDIVIDUAL WEIGHT

Operating	Storage	Individual		
temperature range	temperature range*	weight		
–55 to +125 °C	–55 to +125 °C	4 mg		
* The storage temperature range is for after the assembly				

The storage temperature range is for after the assembly.

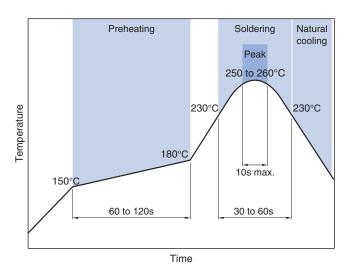
0.6 0.8 0.6

RECOMMENDED LAND PATTERN

Dimensions in mm

0.8

RECOMMENDED REFLOW PROFILE



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. (3/4)

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 12 months. Be sure to follow the storage conditions (temperature: 5 to 40°C, humidity: 10 to 75% RH or 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 does not exceed 150°C. 	difference between the solder temperature and chip temperature					
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 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.						
\bigcirc 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 faile person or property. If you intend to use the products in the applications listed below or if set forth in the each catalog, please contact us. 	ent, 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- 					

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.

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