



**THE DATASHEET OF
FLF3215T-1R0N**



SMD Inductors(Coils) For Power Line(Wound, Magnetic Shielded)

Conformity to RoHS Directive

FLF Series FLF3215

FEATURES

- Resin mold structure: stress and shock resistant.
- A magnetic shield structure using plastic magnet material for the exterior.
- The product uses metal terminals, which realize excellent connection reliability.
- From 0.47 μ H to 100 μ H, all of the products are available in the E-3 series.
- It is lead-free compatible.

APPLICATIONS

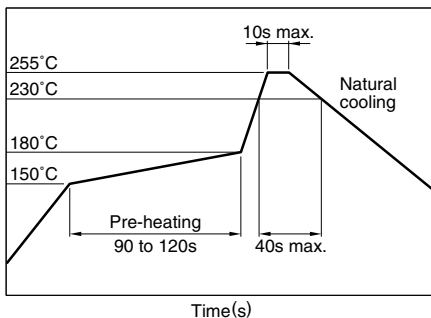
- HDDs, wirelessLAN modules, digital cameras, flat-TVds

SPECIFICATIONS

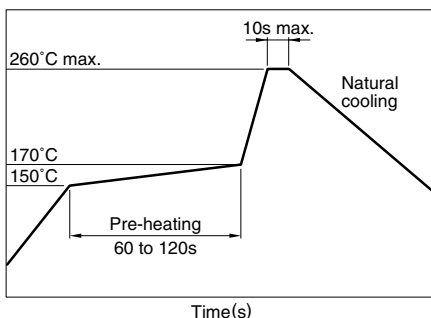
Operating temperature range	-40 to +125°C [Including self-temperature rise]
Storage temperature range	-40 to +125°C

RECOMMENDED SOLDERING CONDITIONS

REFLOW SOLDERING



FLOW SOLDERING



IRON SOLDERING

Tip temperature	300 to 350°C
Heating time	3 seconds/soldering
Soldering rod specifications	Output: 30W Tip diameter: 1mm

- Based on the above conditions, use a maximum product temperature of 260°C and a maximum accumulated heating time of 10 seconds as a guideline.
- Please contact us for details.

PRODUCT IDENTIFICATION

FLF	3215	T-	1R0	N
(1)	(2)	(3)	(4)	(5)

(1) Series name

(2) Dimensions

3215	3.2×2.5×1.55mm (L×W×T)
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(3) Packaging style

T	Taping (reel)
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(4) Inductance value

1R0	1 μ H
100	10 μ H
101	100 μ H

(5) Inductance tolerance

M	±20%
N	±30%

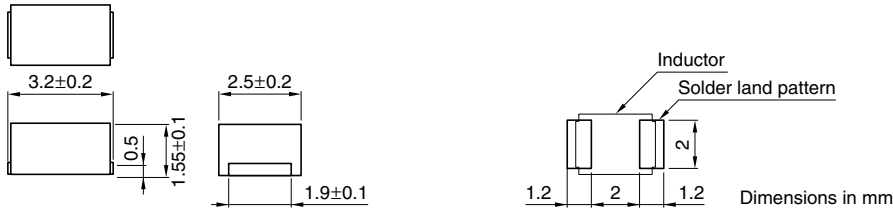
PACKAGING STYLE AND QUANTITIES

Packaging style	Quantity
Taping	2000 pieces/reel

• Conformity to RoHS Directive: This means that, in conformity with EU Directive 2002/95/EC, lead, cadmium, mercury, hexavalent chromium, and specific bromine-based flame retardants, PBB and PBDE, have not been used, except for exempted applications.

• All specifications are subject to change without notice.

SHAPES AND DIMENSIONS/RECOMMENDED PC BOARD PATTERN



ELECTRICAL CHARACTERISTICS

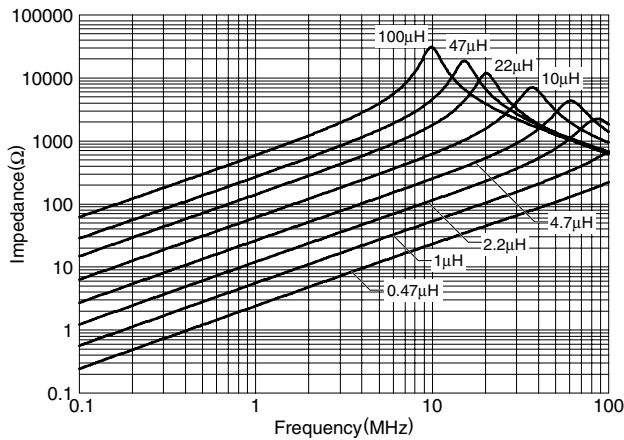
Inductance (μH)	Inductance tolerance	Q ref.	Test frequency (MHz)	Self-resonant frequency L,Q (MHz)min.	DC resistance (Ω)±20%	Rated current*(mA)max.		Part No.
						Based on inductance change	Based on temperature rise	
0.47	±30%	30	1	200	0.021	2800	2800	FLF3215T-R47N
1	±30%	30	1	100	0.03	2000	2350	FLF3215T-1R0N
2.2	±20%	20	1	60	0.05	1400	1800	FLF3215T-2R2M
4.7	±20%	20	1	40	0.09	1000	1360	FLF3215T-4R7M
10	±20%	25	1	25	0.20	700	900	FLF3215T-100M
22	±20%	30	1	14	0.45	450	600	FLF3215T-220M
47	±20%	35	1	9	0.90	280	430	FLF3215T-470M
100	±20%	40	1	6	2.00	200	280	FLF3215T-101M

* Rated current: The rated current is the smaller of the values given based on the rate of inductance change (30% decrease from the initial value) or the temperature rise (temperature rise of 40°C caused by the heat generated by the product itself).

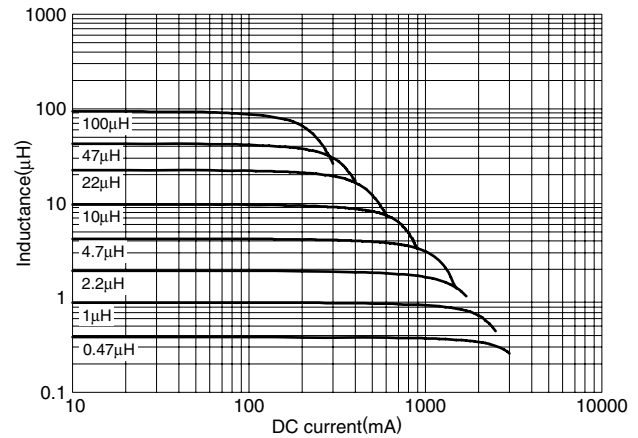
- Test equipment L, Q: Agilent 4294A PRECISION IMPEDANCE ANALYZER
SRF: HP8753C NETWORK ANALYZER or equivalent
Rdc: ADEX AX-114N DIGITAL OHM METER or equivalent

TYPICAL ELECTRICAL CHARACTERISTICS

IMPEDANCE vs. FREQUENCY CHARACTERISTICS





INDUCTANCE CHANGE vs. DC SUPERPOSITION CHARACTERISTICS



Looking for pricing, stock, or lifecycle information?

Click below to explore more details on WIN SOURCE:

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-  [TDK Corporation Information](#)

Optimize Your Supply Chain with WIN SOURCE Solutions

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-  Obsolete Management
-  Cost Control Management
-  Shortage Management
-  Alternative Solution
-  Excess Inventory Management