THE DATASHEET OF

FLF3215T-1R0N

TDK

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 0.47μH to 100μH, all of the products are available in the E-3 series.
- It is lead-free compatible.

APPLICATIONS

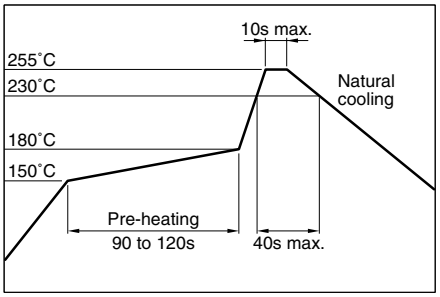
- HDDs, wirelessLAN modules, digital cameras, flat-TVs

SPECIFICATIONS

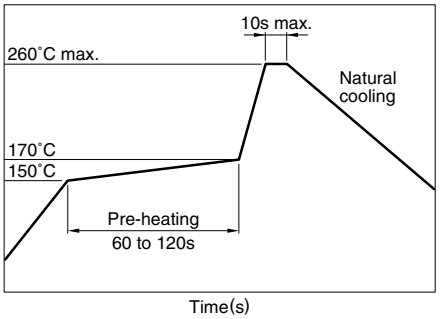
Operating temperature range	–40 to +125°C [Including self-temperature rise]
Storage temperature range	–40 to +125°C

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)

(3) Packaging style

T	Taping (reel)

(4) Inductance value

1R0	1μH
100	10μH
101	100μH

(5) Inductance tolerance

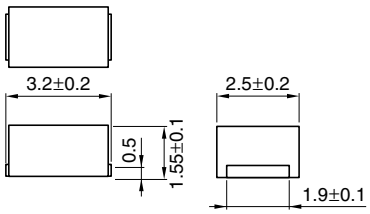
M	±20%
N	±30%

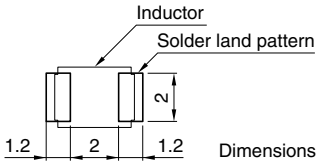
PACKAGING STYLE AND QUANTITIES

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.

SHAPES AND DIMENSIONS/RECOMMENDED PC BOARD PATTERN





Dimensions in mm

ELECTRICAL CHARACTERISTICS

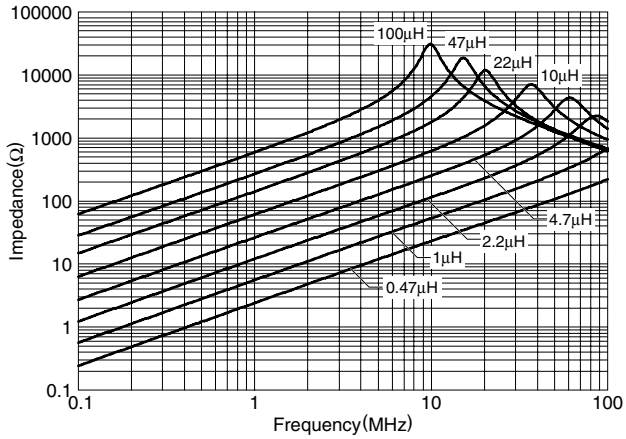
Inductance (μH)	Inductance tolerance	Q ref.	Test frequency L,Q (MHz)	Self-resonant frequency (MHz)min.	DC resistance (Ω)±20%	Rated current*(mA)max.		Part No.
						Based on inductance change	Based on temperature rise	
0.47	±30%	30	1	200	0.021	2800	2800	FLF3215T-R47N
1	±30%	30	1	100	0.03	2000	2350	FLF3215T-1R0N
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).

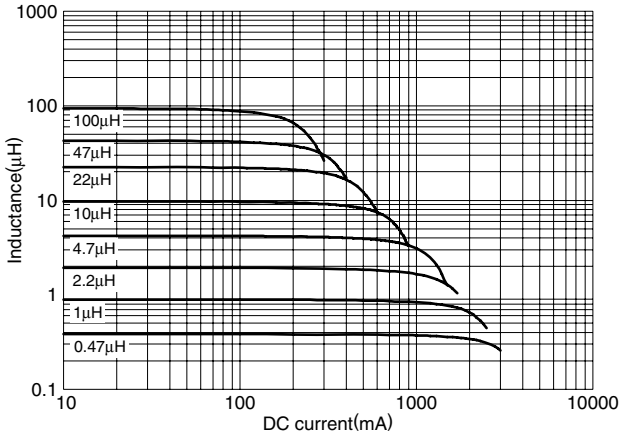
• Test equipment L, Q: Agilent 4294A PRECISION IMPEDANCE ANALYZER
SRF: HP8753C NETWORK ANALYZER or equivalent
Rdc: ADEX AX-114N DIGITAL OHM METER or equivalent

TYPICAL ELECTRICAL CHARACTERISTICS

IMPEDANCE vs. FREQUENCY CHARACTERISTICS



INDUCTANCE CHANGE vs. DC SUPERPOSITION CHARACTERISTICS



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- TDK Corporation Information

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