&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 $0.47\mu H$ to $100\mu H$, all of the products are available in the E-3 series.
- It is lead-free compatible.

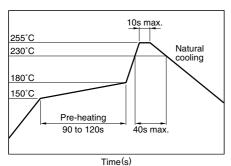
APPLICATIONS

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

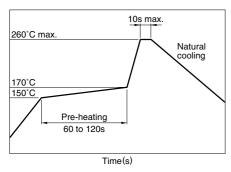
SPECIFICATIONS

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	Ν
(1)	(2)	(3)	(4)	(5)

(1) Series name

(2) Dimensions

3215	$3.2\times2.5\times1.55$ mm (L×W×T)

(3) Packaging style

,	0 0 ,		
T		Taping (reel)	

(4) Inductance value

1R0	1µH	
100	10μH	
101	100µH	

(5) Inductance tolerance

М	±20%	
N	±30%	

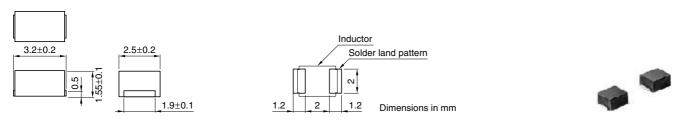
PACKAGING STYLE AND QUANTITIES

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



ELECTRICAL CHARACTERISTICS

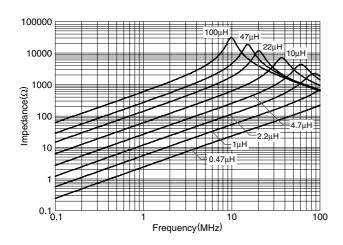
Inductance	Inductance tolerance	Q	Test	Self-resonant	DC	Rated current*(mA)max.		
(μH)		ref.	frequency L, (MHz)	L,Qfrequency (MHz)min.	resistance $(\Omega)\pm20\%$	Based on inductance change	Based on temperature rise	Part No.
0.47	±30%	30	1	200	0.021	2800	2800	FLF3215T-R47N
1	±30%	30	1	100	0.03	2000	2350	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).

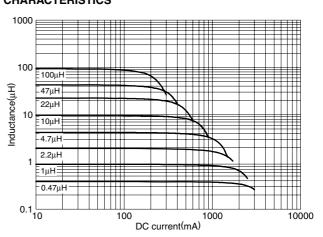
• Test equipment L, Q: Agilent 4294A PRECISION IMPEDANCE ANALYZER

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



[•] All specifications are subject to change without notice.