

SMD Inductors(Coils) For Power Line(Wound)

NLCV Series NLCV32T-PFR

FEATURES

- In comparison with an existing series product, rated current maintains 1.4-2 times.
- An inductance change in maximum rating current load is low with -10%.
- Maximum operating temperature is +125°C(Including a selftemperature rise).
- Land pattern is compatible with an existing series product.
- Lead-free material is used for the plating on the terminal

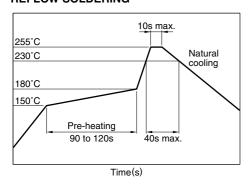
APPLICATIONS

Power supply lines, audio visual systems, electronic equipment for vehicle, IT equipment

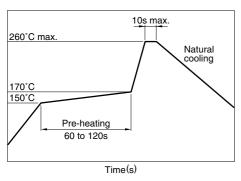
SPECIFICATIONS

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

NLCV	32	Т	R10	М	PF	R
(1)	(2)	(3)	(4)	(5)	(6)	(7)

(1) Series name

(2) Dimensions

32	$3.2\times2.5\times2.2$ mm(L×W×T)

(3) Packaging style

,	5 5 7		
Т		Taping (reel)	

(4) Inductance

R10	0.1µH
1R0	1μΗ
100	10μH

(5) Inductance tolerance

K	±10%	
M	±20%	

(6) Lead-free compatible product

PF	Lead-free compatible product

(7) TDK internal code



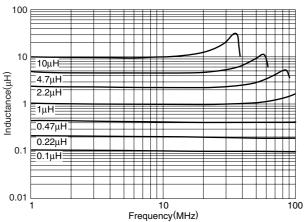
SHAPES AND DIMENSIONS/RECOMMENDED PC BOARD PATTERN

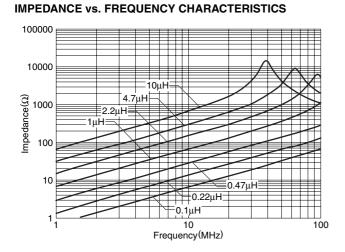


ELECTRICAL CHARACTERISTICS

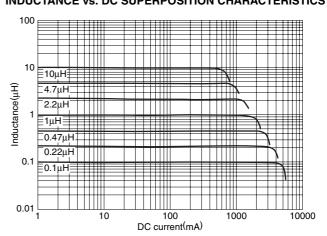
Inductance (µH)	Inductance tolerance	Q ref.	Test frequency L,Q (MHz)	Self-resonant frequency (MHz)min.	DC resistance (Ω)±20%	Rated current (mA)max.	Part No.
0.1	±20%	10	25.2	800	0.02	2850	NLCV32T-R10M-PFR
0.15	±20%	10	25.2	500	0.024	2600	NLCV32T-R15M-PFR
0.22	±20%	10	25.2	400	0.027	2400	NLCV32T-R22M-PFR
0.33	±20%	10	25.2	300	0.035	2100	NLCV32T-R33M-PFR
0.47	±20%	10	25.2	250	0.038	2000	NLCV32T-R47M-PFR
0.68	±20%	10	25.2	180	0.045	1900	NLCV32T-R68M-PFR
1	±20%	15	7.96	100	0.055	1700	NLCV32T-1R0M-PFR
1.5	±20%	15	7.96	80	0.095	1400	NLCV32T-1R5M-PFR
2.2	±20%	15	7.96	68	0.115	1200	NLCV32T-2R2M-PFR
3.3	±20%	15	7.96	54	0.16	1000	NLCV32T-3R3M-PFR
4.7	±20%	15	7.96	46	0.2	900	NLCV32T-4R7M-PFR
6.8	±20%	15	7.96	38	0.29	700	NLCV32T-6R8M-PFR
10	±10%	20	2.52	30	0.42	600	NLCV32T-100K-PFR

TYPICAL ELECTRICAL CHARACTERISTICS **INDUCTANCE vs. FREQUENCY CHARACTERISTICS**





INDUCTANCE vs. DC SUPERPOSITION CHARACTERISTICS



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