



**THE DATASHEET OF  
NLFC201614T-2R2M-PF**



# Inductors

## For Power Line SMD

# NLFC Series NLFC2016 Type

### FEATURES

- The product has good heat durability that withstands lead-free compatible reflow soldering conditions.
- Lead-free material is used for the plating on the terminal.
- The NLFC series features magnetic shielding and is recommended for power supply line applications.
- This product conforms to the standards that are slated to be introduced under the RoHS Directive.

### APPLICATIONS

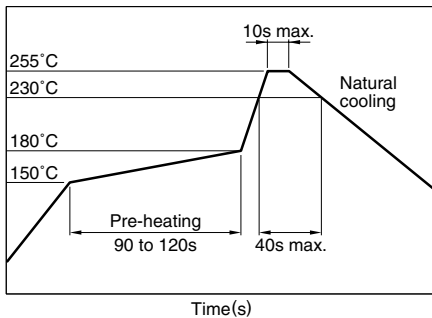
- Audio-visual equipment including TVs, VCRs and digital cameras.
- Electronic equipment used in communication infrastructures including xDSL and mobile base stations.
- Other electronic equipment including HDDs and ODDs.

### SPECIFICATIONS

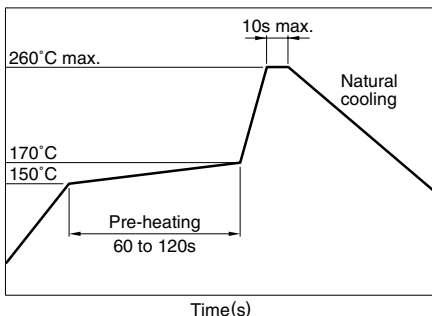
Operating temperature range	-40 to +85°C [Including self-temperature rise]
Storage temperature range	-40 to +85°C

### 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

NLFC	201614	T-	2R2	M	-PF
(1)	(2)	(3)	(4)	(5)	(6)

(1)Series name

(2)Dimensions

201614	2.1×1.6×1.4mm (L×W×T)
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(3)Packaging style

T	Taping (reel)
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(4)Inductance value

1R0	1μH
220	22μH

(5)Inductance tolerance

K	±10%
M	±20%

(6) Lead-free compatible product

PF	Lead-free compatible product
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### PACKAGING STYLE AND QUANTITIES

Packaging style	Quantity
Taping	2000 pieces/reel

• Regarding RoHS Directive conformity: This claim is based on the individual judgment made by TDK Corporation that this product conforms to EU Directive 2002/95/EC. This does not constitute a guarantee that the product conforms to all laws and regulations based on the RoHS Directive enacted in individual EU member states.

• All specifications are subject to change without notice.

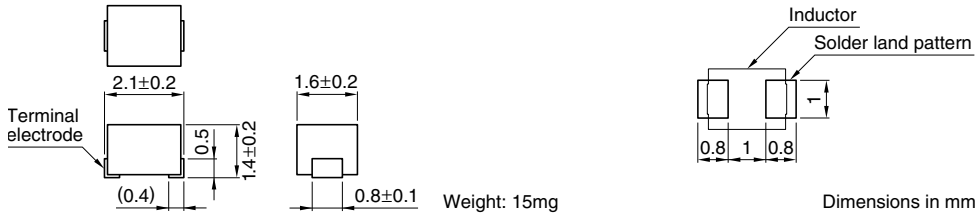
# Inductors

## For Power Line

### SMD

## NLFC Series NLFC2016 Type

### SHAPES AND DIMENSIONS/RECOMMENDED PC BOARD PATTERN



### ELECTRICAL CHARACTERISTICS

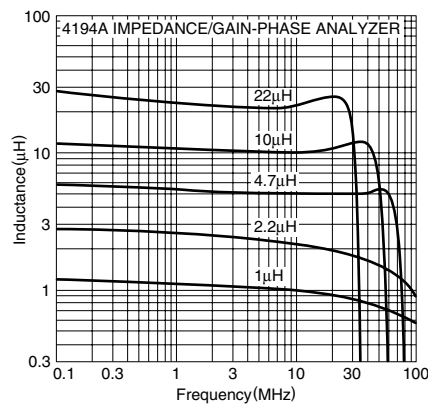
Inductance (μH)	Inductance tolerance	Q ref.	Test frequency L, Q (MHz)	Self-resonant frequency (MHz)min.	DC resistance (Ω)±30%	Rated current* (mA)max.	Part No.
1	±20%	5	7.96	100	0.16	300	NLFC201614T-1R0M-PF
2.2	±20%	5	7.96	80	0.23	240	NLFC201614T-2R2M-PF
4.7	±20%	5	7.96	45	0.4	150	NLFC201614T-4R7M-PF
10	±10%	10	2.52	32	0.7	120	NLFC201614T-100K-PF
22	±10%	10	2.52	16	1.7	75	NLFC201614T-220K-PF

\* Rated current: Value obtained when current flows and the temperature has risen to 20°C or when DC current flows and the initial value of inductance has fallen by 10%, whichever is smaller.

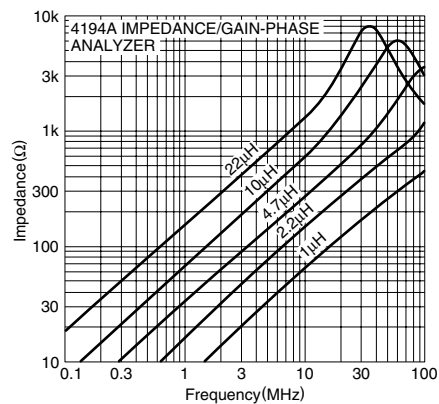
- Test equipment L, Q: YHP4194A IMPEDANCE ANALYZER+YHP16085A+YHP16093B+TF-1, or equivalent  
SRF: HP8753C NETWORK ANALYZER (Zin=Zout=50Ω), or equivalent  
Rdc: MATSUSHITA VP-2941A DIGITAL MILLIOHM METER, or equivalent

### TYPICAL ELECTRICAL CHARACTERISTICS

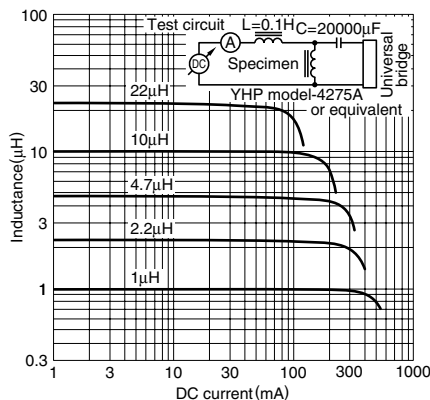
#### INDUCTANCE vs. FREQUENCY CHARACTERISTICS



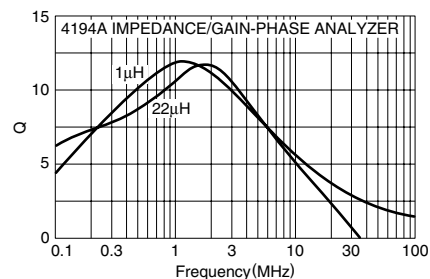
#### IMPEDANCE vs. FREQUENCY CHARACTERISTICS



#### INDUCTANCE CHANGE vs. DC SUPERPOSITION CHARACTERISTICS





#### Q vs. FREQUENCY CHARACTERISTICS



## Looking for pricing, stock, or lifecycle information?

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-  [View NLFC201614T-2R2M-PF on WIN SOURCE](#)
-  [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