

# Specification For Approval



<b>Item P/N</b>	FP110475W-R08N	<b>Test Instrument</b>	4291A 、 16502 、 19073
<b>Product</b>	Wire Wound Molded SMD Power Inductors	<b>Test Frequency</b>	100 KHz / 1.0V

Customer : \_\_\_\_\_

Customer P/N : \_\_\_\_\_

Description : Wire Wound Molded SMD Power Inductors

HT P/N : FP110475W-R08N

Revision No. : Version: 1.0

Date : \_\_\_\_\_

Notes : Standard



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IATF 16949:2016 / ISO 9001:2015 / ISO 14001:2015

Ht Documented		Customer Approval
Approved	Jack	
Checked	George	
Prepared	Cherrie	



# Specification



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## ■ Introduction

- Compliant for 100% Lead (Pb)-Free and RoHS.
- Higher current carrying Capacity , lower DCR , and more efficiency.
- Operating temperature range from -55°C to +125°C (Including self - temperature rise).

## ■ Applications:

- Server, desktop computer, notebook

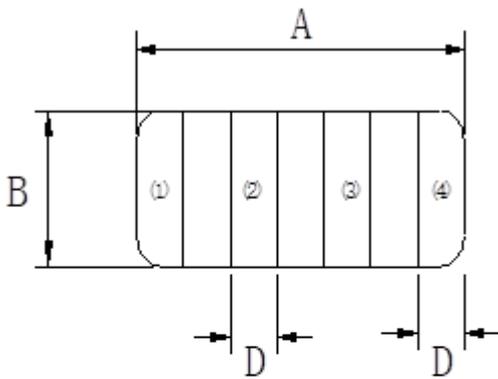
## ■ Explanation Of Part Numbers:

①            ②            ③            ④            ⑤

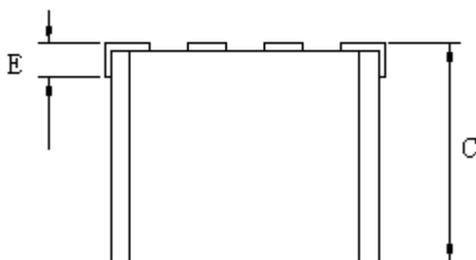
FP - 110475 W - R08 N

- ① Product name
- ② Shapes and dimensions
- ③ Internal code
- ④ Impedance 【at 100KHz】 R08 = 0.08μH
- ⑤ Inductance Tolerance (N= ± 30%)

## ■ Packing Dimensions (mm)



FP110475	Dimensions(mm)
A	10.8 ±0.2
B	4.0 ±0.2
C	7.3 ±0.2
D	1.5 ±0.2
E	1.5 Max



### Note:

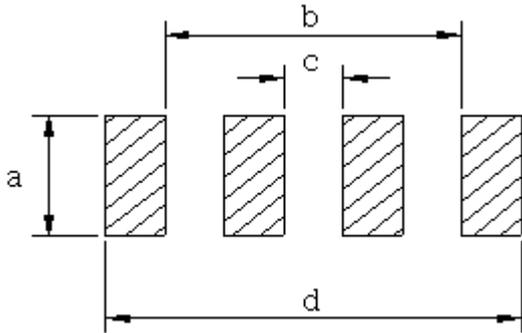
- DCR1: pin (1),(4) measure points.
- DCR2: pin (2),(3) measure points.
- Idc\_1: pin (1),(4) measure points.
- Idc\_2: pin (2),(3) measure points.
- Isat: pin (1),(4) measure points.

# Specification



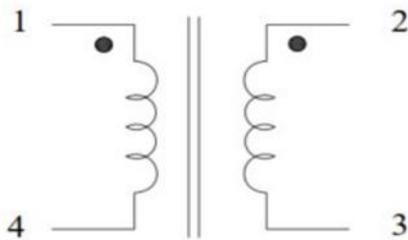
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## ■ Recommend Land Pattern Dimensions: Unit: mm



a	4.4 ref
b	7.8 ref
c	1.3 ref
d	11.4 ref

## ■ Schematic:



## ■ Electrical Characteristics:

Part No.	Inductance L0 (μH) @0A	DCR1 (mΩ)		DCR2 (mΩ)		Heating Rating Current		Heating Rating Current		Saturation Current		Coupling Coefficient
		Typ.	Max	Typ.	Max	Idc_1 (A)		Idc_2 (A)		Isat (A)		
						Typ.	Max	Typ.	Max	Max	Typ.	Typ.
FP110475W-R08N	0.08 ±30%	0.13	0.16	0.45	0.6	69	62	37	32	105	120	0.9

### Notes

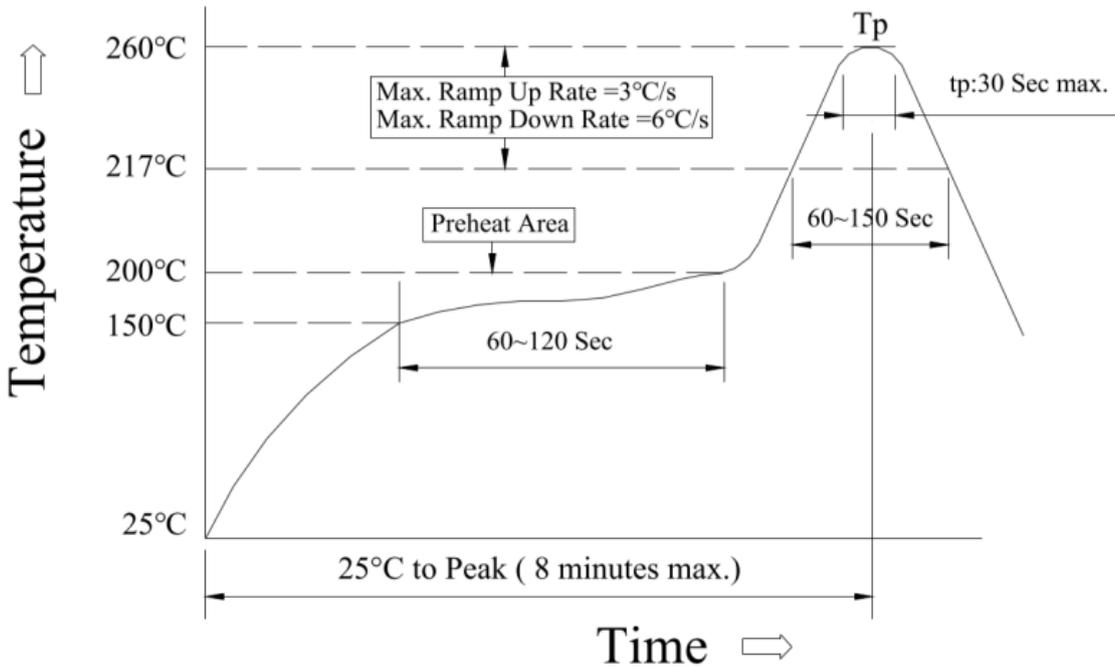
- All test data is referenced to 25 °C ambient.
- Test condition: 100KHz, 1.0Vrms.
- Operating temperature range - 55 °C to + 125 °C.
- I<sub>rms</sub> (A): DC current (A) that will cause an approximate ΔT of 40 °C (reference ambient temperature is 25 °C).
- I<sub>sat</sub>(A): DC current (A) that will cause L0 to drop approximately 30 %.
- The part temperature (ambient + temp rise) should not exceed 125 °C under worst case operating conditions.  
Circuit design, component placement, PWB trace size and thickness, airflow and other cooling provisions all affect the part temperature. Part temperature should be verified in the end application.

# Characteristics



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## ■ Recommended Soldering Technologies



### (1) Reflow Soldering method:

Reflow Soldering	Tp: 255~260 °C	Max. 30 seconds ( tp )
	217 °C	60~150 seconds
Pre-Heat	150 ~ 200 °C	60~120 seconds
Time 25 °C to peak temperature	8 minutes max.	

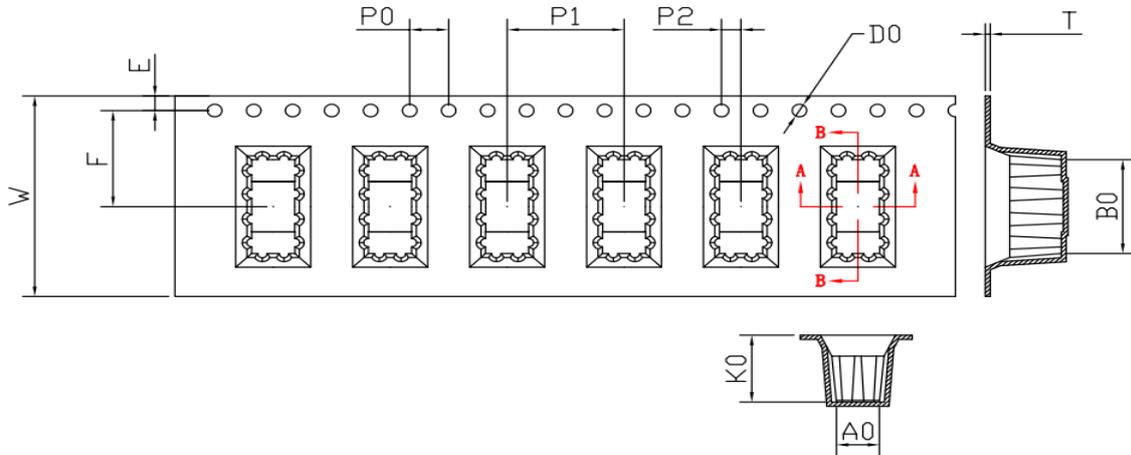
### (2) Soldering iron method: 350±5°C max. 3 seconds

# Characteristics



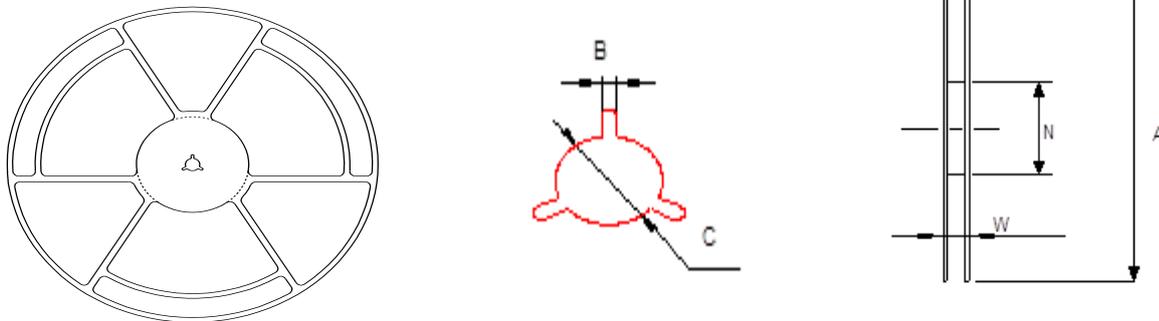
<b>Item P/N</b>	FP110475W-R08N	<b>Test Instrument</b>	4291A、16502、19073
<b>Product</b>	Wire Wound Molded SMD Power Inductors	<b>Test Frequency</b>	100 KHz / 1.0V

## ■ Packaging Information: (Unit: mm)



Type	Tape dimensions (mm)										
	W	P1	P0	P2	D0	T	A0	B0	K0	E	F
FP110475	24 ±0.3	12 ±0.1	4 ±0.1	2 ±0.15	1.5 ±0.1	0.5 ±0.05	4.4 ±0.15	11.3 ±0.15	8.0 ±0.1	1.75 ±0.1	11.5 ±0.1

## Reel Dimensions: (Unit : mm)



Type	A(mm)	W(mm)	N(mm)	B(mm)	C(mm)
13"	330 ±2.0	24 ±0.5	97 ±0.5	2.2 ±0.5	13.2 ±0.2

## Packaging Quantity:

Type	Standard Quantity		
	Reel	Inner box	Carton box
FP110475	500 pcs / reel	1Reel / box (500 pcs)	Middle boxes, (2500 pcs)