

■ Features

- High rated current for circuit design.
- Design by special lead wire to prevent open circuit failure.
- Low cost with rugged reliability and performance fixed inductor.
- Operating temperature: $-40^{\circ}\text{C} \sim +125^{\circ}\text{C}$.

■ Applications

- TVs and Audio equipment.
- Notebook, Inkjet printer, Copying machine, Display monitor, Cellular phone.
- Switching Power Supply.
- Excellent as DC/DC converter boost or buck inductor.

■ Product Identification

$\frac{\text{YPK}}{(1)}$ $\frac{\square\square\square\square}{(2)}$ - $\frac{\square\square\square}{(3)}$ $\frac{\square}{(4)}$

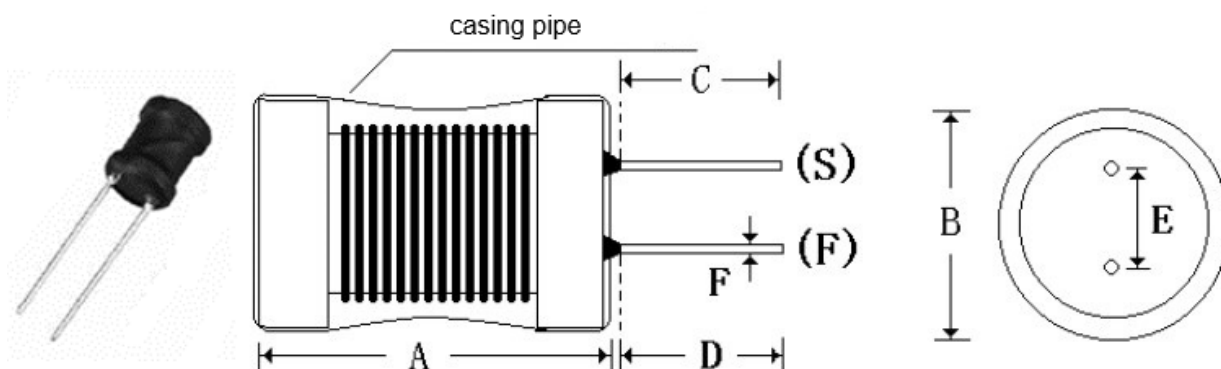
(1) : Type

(2) : Dimensions

(3) : Inductance value

(4) : Inductance Tolerance : N=±30%, M=±20% , K=±10% , J=±5%

■ Shapes and Dimensions (Unit: mm)



TYPE	A Max.	B Max.	C	D	E	F
YPK1016	20.0	12.0	13.0±2.0	13.0±2.0	6.0±0.5	0.8±0.1

■ Electrical Specification

Part Number	Inductance (uH)	Test Condition	DCR (Ω) Max.	I sat (mA) Max.
YPK1016-102M	1000 $\pm$ 20%	1KHz/0.25V	1.0	450

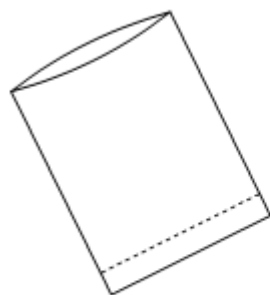
※ Design as Customer's Requested Specifications.

■ Material List

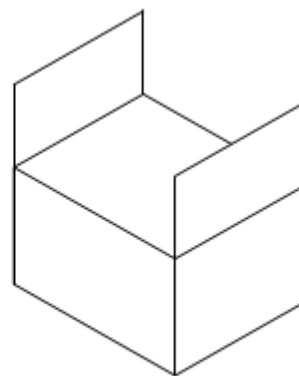
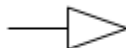
No	Item	Description	Supplier	Rating	UL File
1	Core	S3 DR2W 10 $\times$ 16	FUZHUYUAN		
		OR EQUIVALENT			
2	Wire	QA-1 ϕ 0.35mm N	JINYAN	155 $^{\circ}$ C	E238500
		OR EQUIVALENT			
3	TUBE	T-2 ϕ 10 $\times$ 18.5mm UL(Black)	QUNAITAI	125 $^{\circ}$ C	E227336
		OR EQUIVALENT			
4	PIN	TCW ϕ 0.8mm	MINGTONG		
5	VARNISH	DA-700-6	QIANGDA	130 $^{\circ}$ C	E347463

■ Reliability test

NO.	Items	Test Methods	Requirements
1	Lead terminal strength	A static pulling force of 5N in a direction parallel to the lead terminals for 60±5 seconds.	No terminal breakage or loosening.
2	Resistance to soldering heat test	Fix the samples on a 1.6mm thickness PCB, then dip the sample leads into a soldering bath of 270±5°C up to the PCB for 5±1 seconds.	No significant abnormality in appearance. Deviation relative to initial value: L: Within ±10%
3	Solder ability test	Immerse the terminal in flux for 5 seconds. Then dip the terminal into a soldering bath of 245±5°C for 2±0.5 seconds.	At least 90% of terminal electrode is covered by new solder.
4	Humidity test	Temperature: 40°C±2°C Humidity: 90%~95%RH Duration: 96±4 Hours	No significant abnormality in appearance. Deviation relative to initial value: L: Within ±10%
5	High temperature storage test	Temperature: 85°C±2°C Duration: 96±4 Hours	No significant abnormality in appearance. Deviation relative to initial value: L: Within ±10%
6	Low temperature storage test	Temperature: -25°C±2°C Time: 96±4 Hours	No significant abnormality in appearance. Deviation relative to initial value: L: Within ±10%
7	Thermal shock test	First -25±5°C for 30±3 minutes, last 85±5°C 30±3 minutes as 1 cycles. Go through 10 cycles.	No significant abnormality in appearance. Deviation relative to initial value: L: Within ±10%

■ Package specification

PE 袋



Type	Quantity(pcs)			Remark
	Bag	Inside box	Outer box	
YPK1016	100	2000	2000	