

■ 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℃ ~ +125℃.

■ 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

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

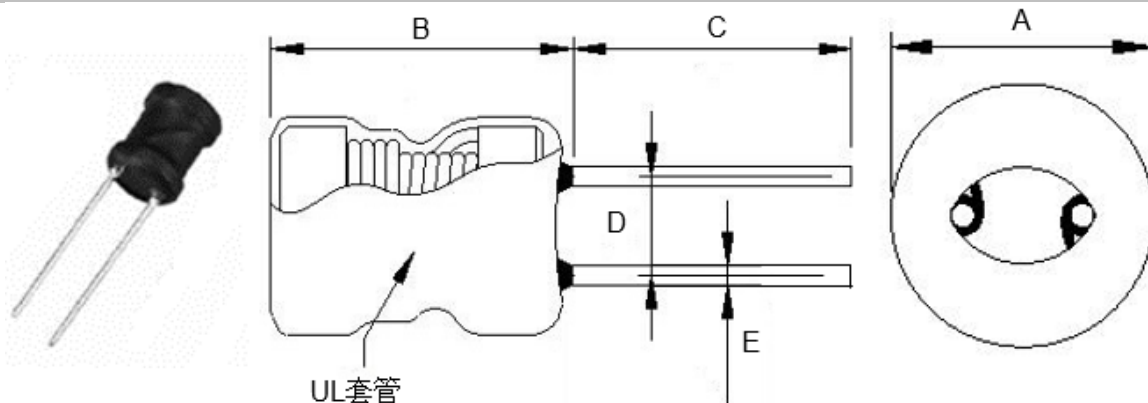
(1) : Type

(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
YPK1012	12.0	15.0	17.0±2.0	6.0±0.5	0.80±0.10

■ YPK1012 Series

Part Number	Inductance (uH)	L Test Frequency (KHz)	Max.DC Resistance (Ω)	Max.Rated Current (mA)
YPK1012-3R3□	3.3	1	0.03	5500
YPK1012-3R9□	3.9	1	0.03	5000
YPK1012-4R7□	4.7	1	0.03	5000
YPK1012-5R6□	5.6	1	0.04	4800
YPK1012-6R8□	6.8	1	0.04	4800
YPK1012-8R2□	8.2	1	0.05	4500
YPK1012-100□	10	1	0.05	4200
YPK1012-120□	12	1	0.05	4000
YPK1012-150□	15	1	0.06	3800
YPK1012-180□	18	1	0.07	3800
YPK1012-220□	22	1	0.08	3500
YPK1012-270□	27	1	0.09	3200
YPK1012-330□	33	1	0.10	3000
YPK1012-390□	39	1	0.12	2500
YPK1012-470□	56	1	0.12	2000
YPK1012-560□	56	1	0.14	1800
YPK1012-680□	68	1	0.15	1700
YPK1012-820□	82	1	0.16	1600
YPK1012-101□	100	1	0.18	1500
YPK1012-121□	120	1	0.20	1400
YPK1012-151□	150	1	0.25	1200
YPK1012-181□	180	1	0.28	1000
YPK1012-221□	220	1	0.30	900
YPK1012-271□	270	1	0.42	800

■ YPK1012 Series

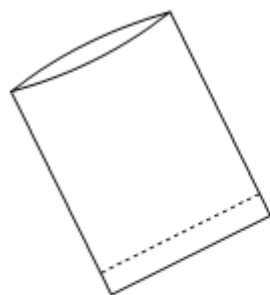
Part Number	Inductance (uH)	L Test Frequency (KHz)	Max.DC Resistance (Ω)	Max.Rated Current (mA)
YPK1012-331□	330	1	0.55	700
YPK1012-391□	390	1	0.60	600
YPK1012-471□	470	1	0.65	600
YPK1012-561□	560	1	0.75	500
YPK1012-681□	680	1	0.85	500
YPK1012-821□	820	1	1.10	400
YPK1012-102□	1000	1	1.40	300

※ Design as Customer's Requested Specifications.

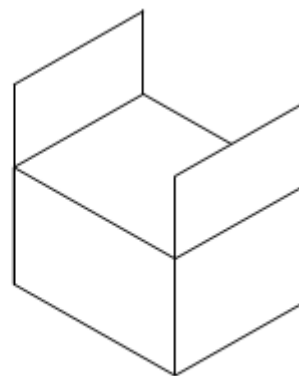
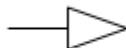
■ Reliability test

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	
YPK1012	100	1200	4800	