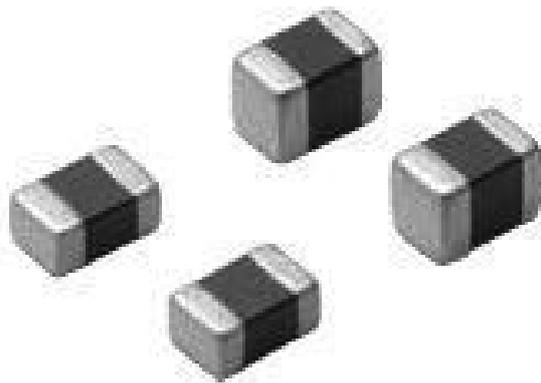




SMD CHIP INDUCTOR

JYCP SERIES



## **FEATURES/APPLICATOINS**

- 0.9 mm in height, this is suitable for low-profile applications.
- Compares with a winding type, this series are small, low height, and high efficiency.
- Stable low DC resistance.
- Excellent mounting strength by SMD chip making.
- No cross coupling between inductors due to the complete magnetic shield and is suitable for high density printed circuit boards.
- DC-DC converters and power modules used for the following equipments. Compact electrical instruments such as cellular phones, DSC, DVC, PDA, DVD and HDD.

Pge

Large current

JYCP2012.....4  
 JYCP2016.....6  
 JYCP2520.....8

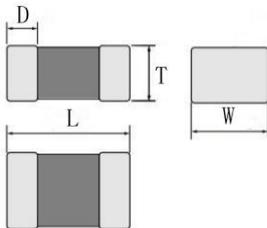
**PRODUCT INDICATION**

**JYCP 2012 F R47 K**  
 ① ② ③ ④ ⑤

- ① Product type: JYCP type
- ② External dimension: 20 for Diameter 2.0mm, 12 for Width 1.25mm
- ③ Material code: F
- ④ Nominal impedance: R47 for 470NH
- ⑤ Tolerance: J for  $\pm 5\%$  K for  $\pm 10\%$  M for  $\pm 20\%$  N for  $\pm 30\%$

**SHAPE AND DIMENSIONS**

unit mm



Part±No.	L	W	T	D
2012(0805)	2.0±0.2	1.25±0.2	0.9±0.1	0.3~0.7
2016(0806)	2.0±0.15	1.6±0.15	0.9±0.1	0.3~0.7
2520(1008)	2.5±0.2	2.0±0.2	0.9±0.1	0.4~0.8

■ Notes:

● HP4191A

Impedance instrument HP4191A Impedance analyzer

● 100MHz

Inductance testing condition: 100MHz.

●

DCR instrument: TH2512B or DCR test equipment equivalent .

●

Rated Current test: VR7210&VR113H.

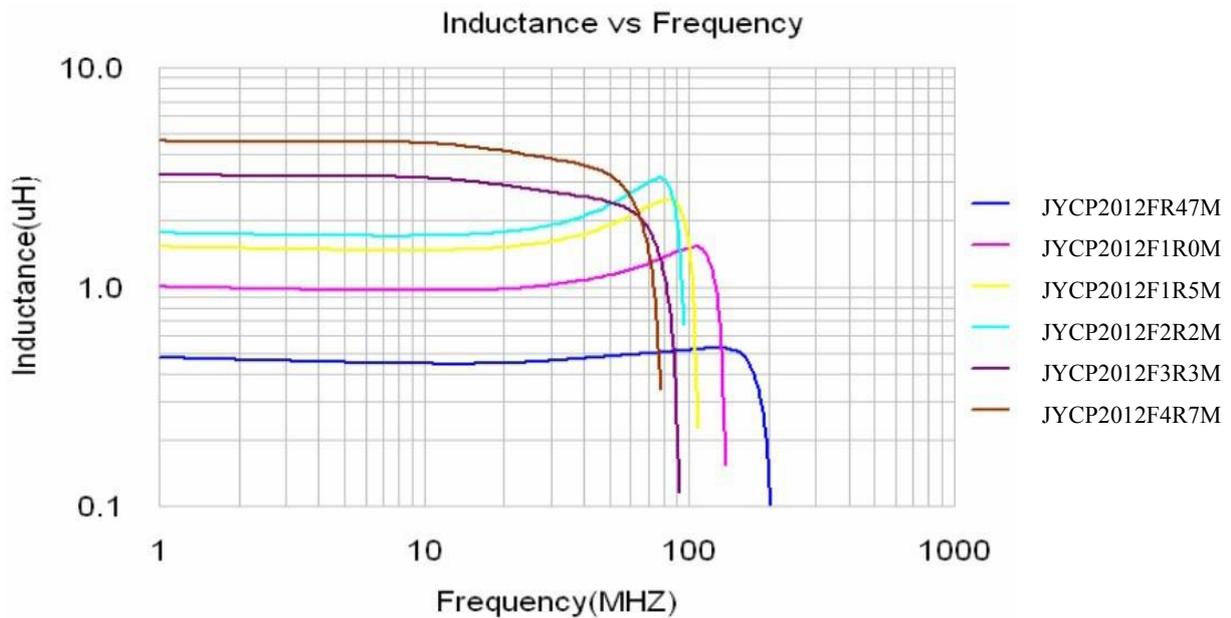
●

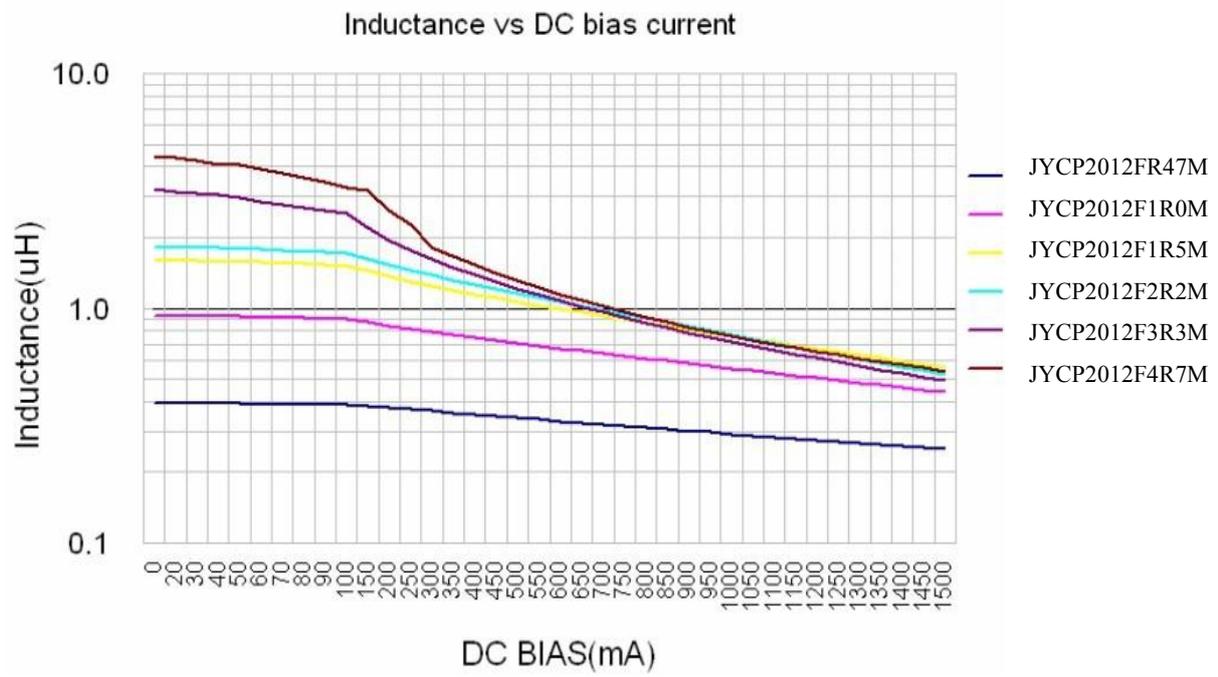
Rated Current definition: Inductance drop by 25% or temperature rise by 40°C ,  
the lesser of the minimum as the rated current.

Temperature storage:-25~80 ; the relative humidity : RH65%~85%

### Electrical Characteristics JYCP2012(0805) Series(3000pcs/reel)

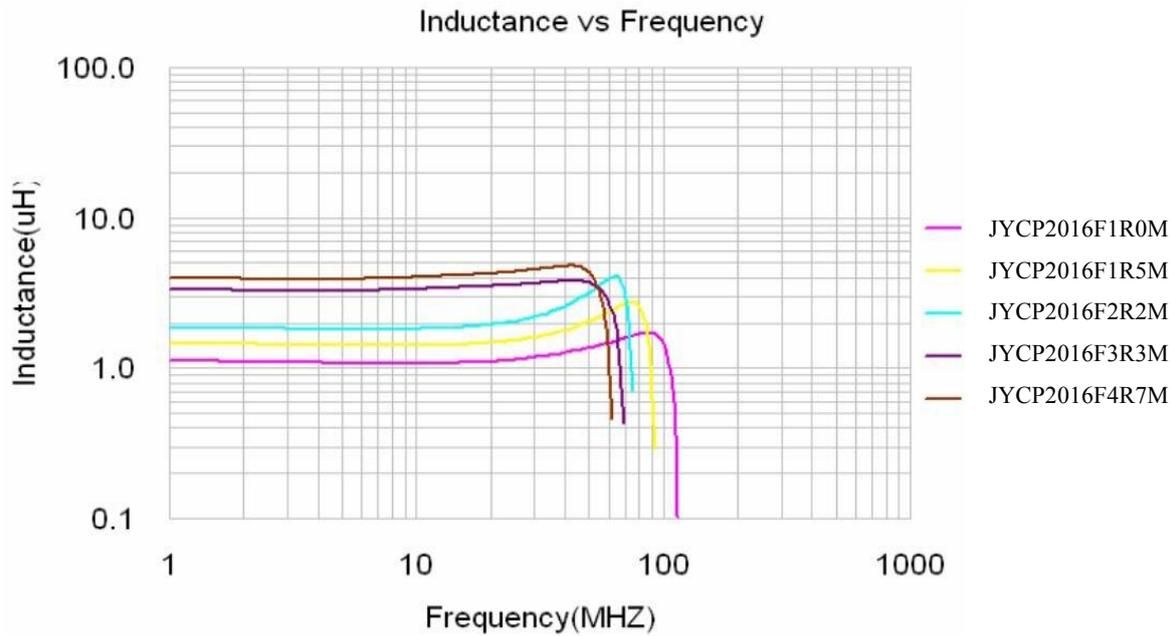
Pare No	L( $\mu$ H)	L, Qtest Freq.(MHz)	S.R.F(MHz)Min.	CR( $\Omega$ )Max.	Ir(mA)Max.
JYCP2012FR47M	0.47 $\pm$ 20%	1	100	0.10 $\pm$ 25%	1100
JYCP2012FR68M	0.68 $\pm$ 20%	1	100	0.12 $\pm$ 25%	1000
JYCP2012FR82M	0.82 $\pm$ 20%	1	90	0.14 $\pm$ 25%	900
JYCP2012F1R0M	1.0 $\pm$ 20%	1	90	0.16 $\pm$ 25%	800
JYCP2012F1R2M	1.2 $\pm$ 20%	1	80	0.16 $\pm$ 25%	800
JYCP2012F1R5M	1.5 $\pm$ 20%	1	70	0.22 $\pm$ 25%	700
JYCP2012F1R8M	1.8 $\pm$ 20%	1	60	0.22 $\pm$ 25%	700
JYCP2012F2R2M	2.2 $\pm$ 20%	1	50	0.25 $\pm$ 25%	600
JYCP2012F3R3M	3.3 $\pm$ 20%	1	40	0.22 $\pm$ 25%	500
JYCP2012F4R7M	4.7 $\pm$ 20%	1	30	0.30 $\pm$ 25%	500

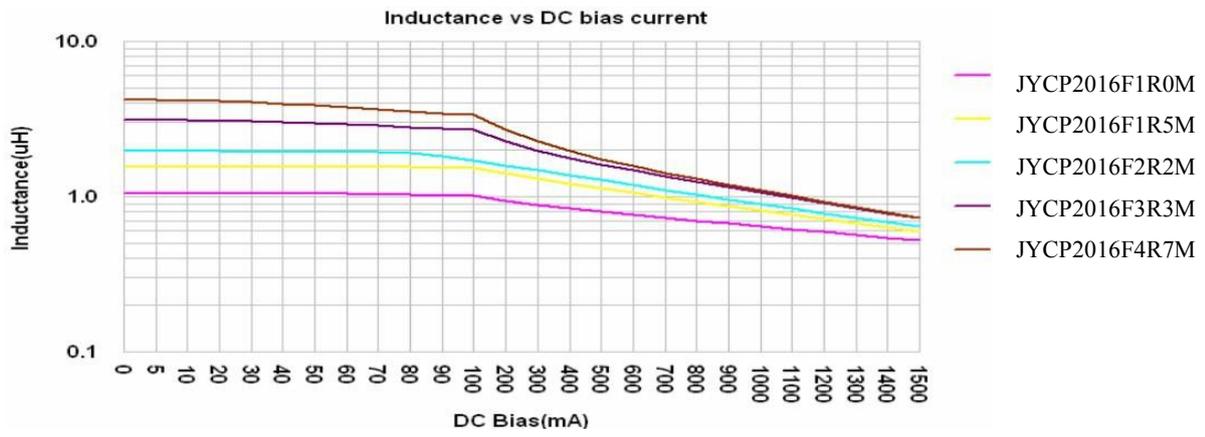




### Electrical Characteristics JYCP2016(0806) Series(3000pcs/reel)

Pare No	L( $\mu$ H)	L,Qtest Freq.(MHz)	S.R.F(MHz)Min.	CR( $\Omega$ )Max.	Ir(mA)Max.
JYCP2016FR47M	0.47 $\pm$ 20%	1	100	0.14 $\pm$ 30%	1500
JYCP2016FR68M	0.68 $\pm$ 20%	1	90	0.15 $\pm$ 30%	1500
JYCP2016FR82M	0.82 $\pm$ 20%	1	80	0.16 $\pm$ 30%	1500
JYCP2016F1R0M	1.0 $\pm$ 20%	1	60	0.16 $\pm$ 30%	1400
JYCP2016F1R2M	1.2 $\pm$ 20%	1	60	0.16 $\pm$ 30%	1400
JYCP2016F1R5M	1.5 $\pm$ 20%	1	50	0.20 $\pm$ 30%	1200
JYCP2016F1R8M	1.8 $\pm$ 20%	1	50	0.20 $\pm$ 30%	1200
JYCP2016F2R2M	2.2 $\pm$ 20%	1	40	0.22 $\pm$ 30%	1200
JYCP2016F3R3M	3.3 $\pm$ 20%	1	30	0.24 $\pm$ 30%	1100
JYCP2016F4R7M	4.7 $\pm$ 20%	1	20	0.30 $\pm$ 30%	1100





**Electrical Characteristics JYCP2520(1008) Series(3000pcs/reel)**

Pare No	L( $\mu$ H)	L, Qtest Freq.(MHz)	S.R.F(MHz)Min.	CR( $\Omega$ )Max.	Ir(mA)Max.
JYCP2520FR47M	0.47 $\pm$ 20%	1	100	0.07 $\pm$ 25%	1800
JYCP2520FR68M	0.68 $\pm$ 20%	1	90	0.09 $\pm$ 25%	1700
JYCP2520FR82M	0.82 $\pm$ 20%	1	80	0.10 $\pm$ 25%	1700
JYCP2520F1R0M	1.0 $\pm$ 20%	1	60	0.11 $\pm$ 25%	1600
JYCP2520F1R2M	1.2 $\pm$ 20%	1	60	0.11 $\pm$ 25%	1600
JYCP2520F1R5M	1.5 $\pm$ 20%	1	50	0.13 $\pm$ 25%	1500
JYCP2520F1R8M	1.8 $\pm$ 20%	1	50	0.13 $\pm$ 25%	1500
JYCP2520F2R2M	2.2 $\pm$ 20%	1	40	0.17 $\pm$ 25%	1300
JYCP2520F3R3M	3.3 $\pm$ 20%	1	30	0.16 $\pm$ 25%	1200
JYCP2520F4R7M	4.7 $\pm$ 20%	1	25	0.20 $\pm$ 25%	1100

