

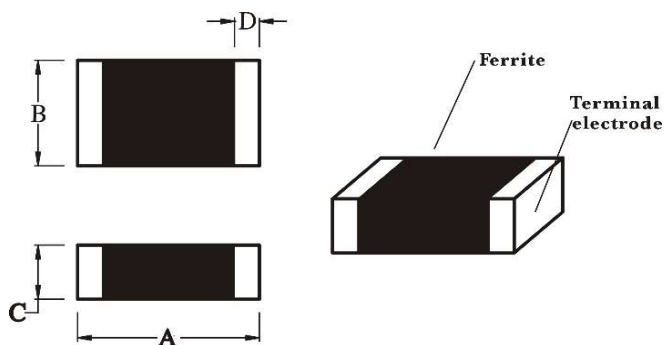


FEATURES

- ◆ Inductance is from 47nH to 47uH
- ◆ JCI series provide an effective solution for dense packed PCB designs
- ◆ Excellent solderability and high heat resistance for either flow or reflow soldering
- ◆ Closed magnetic circuit avoids crosstalk

APPLICATIONS

- ◆ Notebook PC, digital TV and VTRs
- ◆ Printers, hard disk and personal computers
- ◆ Noise elimination for I/O lines of general consumer and computers products

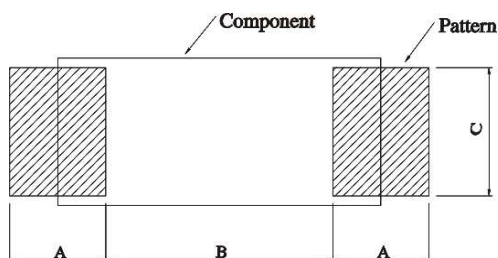


DIMENSIONS (mm)

No.	Part No.	Size (mm)			
		A	B	C	D
1	JCI 2012 (0805) 47N~2R2	2.0 ± 0.2	1.2 ± 0.2	0.90 ± 0.2	0.5 ± 0.3
2	JCI 2012 (0805) 2R7~150	2.0 ± 0.2	1.2 ± 0.2	1.20 ± 0.2	0.5 ± 0.3
3	JCI 2012 (0805) 180~330	2.0 ± 0.2	1.2 ± 0.2	1.25 ± 0.2	0.5 ± 0.3

RECOMMENDED PATTERN

Type	A	B	C
JCI 2012 (0805)	0.8	1.0	1.0



PACKAGE

Size	JCI 2012 (47N~2R2)	JCI 2012 (2R7~330)
Q'TY/Reel	4000	3000

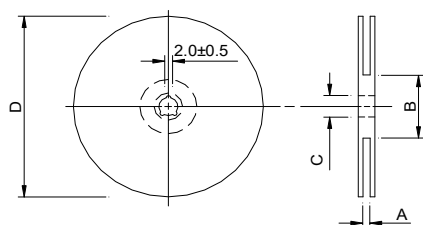
No.	Part No.	Inductance (μ H)	Tolerance	Thickness mm	Q Min.	Test Freq. (MHz)	SRF Min. (MHz)	RDC Max. (Ω)	IDC Max. (mA)
1	JCI 2012-47NM	0.047	M	0.90 ± 0.2	15	50	320	0.20	300
2	JCI 2012-68NM	0.068	M	0.90 ± 0.2	15	50	280	0.20	300
3	JCI 2012-82NM	0.082	M	0.90 ± 0.2	15	50	255	0.20	300
4	JCI 2012-R10□	0.100	K,M	0.90 ± 0.2	20	25	235	0.30	250
5	JCI 2012-R12□	0.120	K,M	0.90 ± 0.2	20	25	220	0.30	250
6	JCI 2012-R15□	0.150	K,M	0.90 ± 0.2	20	25	200	0.40	250
7	JCI 2012-R18□	0.180	K,M	0.90 ± 0.2	20	25	185	0.40	250
8	JCI 2012-R22□	0.220	K,M	0.90 ± 0.2	20	25	170	0.50	250
9	JCI 2012-R27□	0.270	K,M	0.90 ± 0.2	20	25	150	0.50	250
10	JCI 2012-R33□	0.330	K,M	0.90 ± 0.2	20	25	145	0.55	250
11	JCI 2012-R39□	0.390	K,M	0.90 ± 0.2	25	25	135	0.65	200
12	JCI 2012-R47□	0.470	K,M	0.90 ± 0.2	25	25	125	0.65	200
13	JCI 2012-R56□	0.560	K,M	0.90 ± 0.2	25	25	115	0.75	150
14	JCI 2012-R68□	0.680	K,M	0.90 ± 0.2	25	25	105	0.80	150
15	JCI 2012-R82□	0.820	K,M	0.90 ± 0.2	25	25	100	1.00	150
16	JCI 2012-1R0□	1.000	K,M	0.90 ± 0.2	45	10	75	0.40	50
17	JCI 2012-1R2□	1.200	K,M	0.90 ± 0.2	45	10	65	0.50	50
18	JCI 2012-1R5□	1.500	K,M	0.90 ± 0.2	45	10	60	0.50	50
19	JCI 2012-1R8□	1.800	K,M	0.90 ± 0.2	45	10	55	0.60	50
20	JCI 2012-2R2□	2.200	K,M	0.90 ± 0.2	45	10	50	0.65	30
21	JCI 2012-2R7□	2.700	K,M	1.20 ± 0.2	45	10	45	0.75	30
22	JCI 2012-3R3□	3.300	K,M	1.20 ± 0.2	45	10	41	0.80	30
23	JCI 2012-3R9□	3.900	K,M	1.20 ± 0.2	45	10	38	0.90	30
24	JCI 2012-4R7□	4.700	K,M	1.20 ± 0.2	45	10	35	1.00	30
25	JCI 2012-5R6□	5.600	K,M	1.20 ± 0.2	50	4	32	0.90	15
26	JCI 2012-6R8□	6.800	K,M	1.20 ± 0.2	50	4	29	1.00	15
27	JCI 2012-8R2□	8.200	K,M	1.20 ± 0.2	50	4	26	1.10	15
28	JCI 2012-100□	10.00	K,M	1.20 ± 0.2	50	2	24	1.15	15
29	JCI 2012-120□	12.00	K,M	1.20 ± 0.2	50	2	22	1.25	15
30	JCI 2012-150□	15.00	K,M	1.20 ± 0.2	30	1	19	0.80	5
31	JCI 2012-180□	18.00	K,M	1.25 ± 0.2	30	1	18	0.90	5
32	JCI 2012-220□	22.00	K,M	1.25 ± 0.2	30	1	16	1.10	5
33	JCI 2012-270□	27.00	K,M	1.25 ± 0.2	30	1	14	1.15	5
34	JCI 2012-330□	33.00	K,M	1.25 ± 0.2	30	0.4	13	1.25	5

Please notes JCI 2012 series thickness, there are three types of thickness in this series.

□ : Tolerance : K = $\pm 10\%$; M = $\pm 20\%$

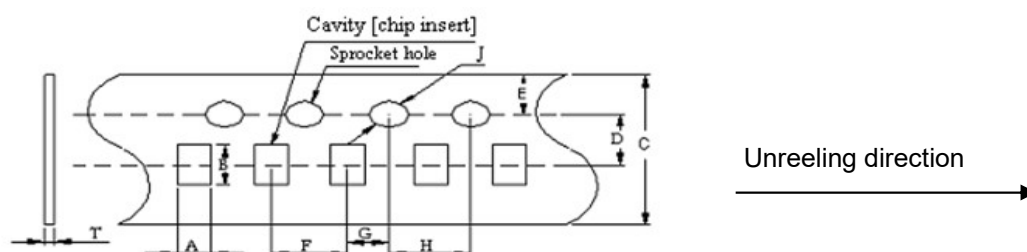
Packaging Information

• Reel Dimension



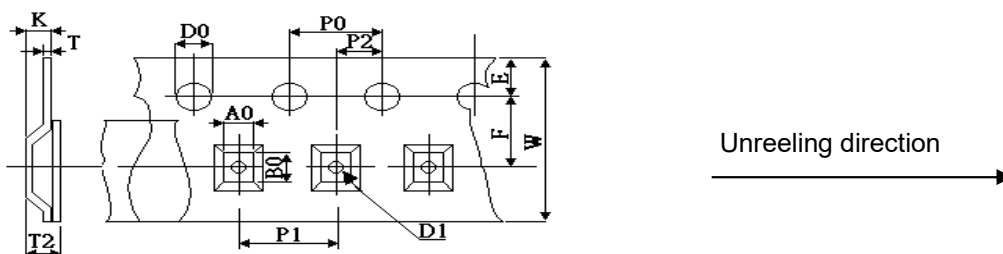
A(mm)	B(mm)	C(mm)	D(mm)
10±1.5	50 min.	13±0.8	178±2

• Tape Dimension



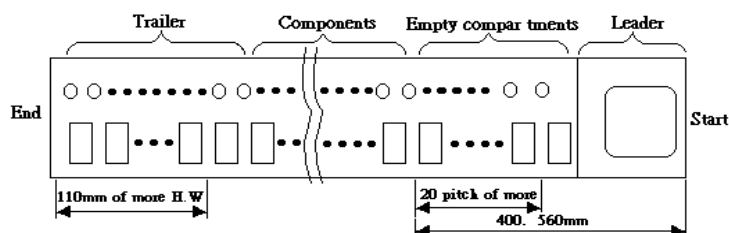
JCI 2012 (47N~2R2)

A(mm)	B(mm)	C(mm)	D(mm)	E(mm)	F(mm)	G(mm)	H(mm)	J(mm)	T(mm)
1.45±0.05	2.25±0.05	8.00±0.10	3.50±0.05	1.75±0.10	4.00±0.10	2.00±0.05	4.00±0.10	1.55±0.05	0.95±0.05



JCI 2012 (2R7~330)

A0(mm)	B0(mm)	W(mm)	F(mm)	E(mm)	P1(mm)	P2(mm)	P0(mm)	D0(mm)	D1(mm)	K(mm)	T(mm)	T2(mm)
1.47 ±0.10	2.29 ±0.10	8.00 ±0.10	3.50 ±0.05	1.75 ±0.10	4.00 ±0.10	1.55 ±0.05	4.00 ±0.10	2.00 ±0.05	1.00 ±0.10	1.45 ±0.10	0.20 ±0.05	1.47 ±0.10

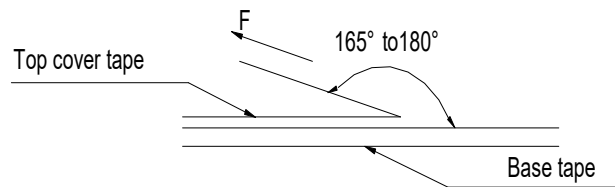


• Packaging Quantity

Part No.	JCI 2012 (47N~2R2)	JCI 2012 (2R7~330)
Q'TY / Reel	4000	3000

• Tearing Off Force

The force for tearing off cover tape is 10 to 100 grams in the arrow direction under the following conditions (referenced ANSI/EIA-481-D-2008 of 4.11 standard).



Tearing Speed mm	Room Temp (°C)	Room Humidity (%)	Room atm (hPa)
300±10%	5~35	45~85	860~1060

■ Application Notice

• STORAGE

1. The solderability of the external electrode may be deteriorated if packages are stored where they are exposed to high humidity. Packages must be stored at 40°C or less and 70% RH or less.
2. The solderability of the external electrode may be deteriorated if packages are stored where they are exposed to dust or harmful gas (hydrogen chloride, sulfurous acid gas or hydrogen sulfide).
3. Packaging material may be deformed if packages are stored where they are exposed to heat or direct sun – light.
4. Minimum packages, such as polyvinyl heat – seal packages shall not be opened until just before they are used. If opened, use the reels as soon as possible.
5. Recommended products should be used within 6 months form the time of delivery. For those parts which passed more than 6 months shall be checked solderability before it is used.

• Transportation

Care should be taken when transporting or handling product to avoid excessive vibration or mechanical shock.