

### Ferrite Chip Inductor 鐵氧體晶片電感

#### FCI Series

For General Use, Ferrite Chip Inductor Provide an Effective Solution for Densely Packed PCB Designs

鐵氧磁體晶片電感為高密度之印刷電路板設計提供一有效的解決方案



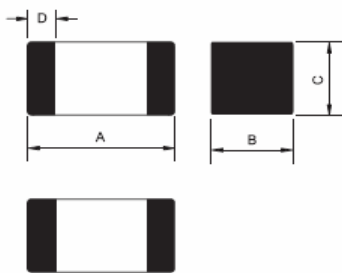
#### Features

1. Monolithic inorganic material construction.
2. Closed magnetic circuit avoids crosstalk.
3. S.M.T.type.
4. Suitable for flow and reflow soldering.
5. Shapes and dimensions follow E.I.A. spec.
6. Available in various sizes.
7. Excellent solder-ability and heat resistance.
8. High reliability.

#### Applications

Noise elimination for I/O lines of notebook PCs, digital TVs and VTRs, Printers, hard disk drives, personal Computers and general consumer and computers Products.

#### Dimensions



#### 特徵

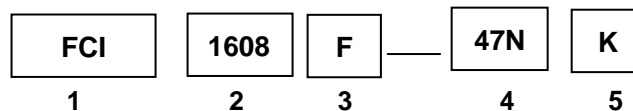
1. 單石無機材料結構。
2. 封閉磁路避免干擾。
3. 表面粘著型式。
4. 適合一般焊接及回焊。
5. 形狀與尺寸符合 E.I.A 標準。
6. 多種尺寸可供選擇。
7. 絕佳之焊錫性與耐熱性。
8. 高可靠度。

#### 應用

筆記型電腦、數位電視、數位錄放影機、列表機、硬式磁碟機、個人電腦和其他一般消費性及電腦產品上輸入/輸出線路之雜訊消除。

Chip size				
Size	A(mm)	B(mm)	C(mm)	D(mm)
1608	1.6±0.15	0.8±0.15	0.8±0.15	0.3±0.2
2012	2.0±0.2	1.25±0.2	0.85±0.2	0.3±0.2
			1.25±0.2	
2520	2.5±0.2	2.0±0.2	1.60±0.2	0.5±0.3
3216	3.2±0.2	1.6±0.2	1.10±0.2	0.5±0.3
3225	3.2±0.2	2.5±0.2	1.30±0.2	0.5±0.3
4532	4.5±0.2	3.2±0.2	1.50±0.2	0.5±0.3

#### Part Numbering



1. Series
2. Dimension : A\*B
3. Material: Ferrite
4. Inductance: 47N=47Nh
5. Inductance Tolerance: S=±0.3nH, J=±5%, K=±10%, M=±20%

**FCI 1608 Series**

Part Number	Thickness C size(mm)	Inductance (uH)	Q min	Test Frequency (MHz)	SRF (MHz) min	DC Resistance (Ohm)max	Rated Current (mA)
FCI1608F-47N□	0.8±0.15	0.047	10	50	260	0.30	50
FCI1608F-68N□	0.8±0.15	0.068	10	50	250	0.30	50
FCI1608F-82N□	0.8±0.15	0.082	10	50	245	0.30	50
FCI1608F-R10□	0.8±0.15	0.10	15	25	240	0.50	50
FCI1608F-R12□	0.8±0.15	0.12	15	25	205	0.50	50
FCI1608F-R15□	0.8±0.15	0.15	15	25	180	0.60	50
FCI1608F-R18□	0.8±0.15	0.18	15	25	165	0.60	50
FCI1608F-R22□	0.8±0.15	0.22	15	25	150	0.80	50
FCI1608F-R27□	0.8±0.15	0.27	15	25	136	0.80	50
FCI1608F-R33□	0.8±0.15	0.33	15	25	125	0.85	35
FCI1608F-R39□	0.8±0.15	0.39	15	25	110	1.00	35
FCI1608F-R47□	0.8±0.15	0.47	15	25	105	1.35	35
FCI1608F-R56□	0.8±0.15	0.56	15	25	95	1.55	35
FCI1608F-R68□	0.8±0.15	0.68	15	25	80	1.70	35
FCI1608F-R82□	0.8±0.15	0.82	15	25	75	2.10	35
FCI1608F-1R0□	0.8±0.15	1.0	30	10	70	0.60	25
FCI1608F-1R2□	0.8±0.15	1.2	30	10	60	0.80	25
FCI1608F-1R5□	0.8±0.15	1.5	30	10	55	0.80	25
FCI1608F-1R8□	0.8±0.15	1.8	30	10	50	0.95	25
FCI1608F-2R2□	0.8±0.15	2.2	30	10	45	1.15	15
FCI1608F-2R7□	0.8±0.15	2.7	33	10	40	1.35	15
FCI1608F-3R3□	0.8±0.15	3.3	30	10	38	1.55	15
FCI1608F-3R9□	0.8±0.15	3.9	30	10	36	1.70	15
FCI1608F-4R7□	0.8±0.15	4.7	30	10	33	2.10	15
FCI1608F-5R6□	0.8±0.15	5.6	30	4	22	1.55	15
FCI1608F-6R8□	0.8±0.15	6.8	30	4	20	1.70	15
FCI1608F-8R2□	0.8±0.15	8.2	30	4	18	2.10	15
FCI1608F-100□	0.8±0.15	10.0	30	2	17	2.55	15
FCI1608F-120□	0.8±0.15	12.0	30	2	15	2.75	15
FCI1608F-150□	0.8±0.15	15.0	20	1	14	1.70	15
FCI1608F-180□	0.8±0.15	18.0	20	1	13	1.85	15

**FCI 2012 Series**

Part Number	Thickness C size(mm)	Inductance (uH)	Q min	Test Frequency (MHz)	SRF (MHz) min	DC Resistance (Ohm)max	Rated Current (mA)
FCI2012F-47N□	0.85±0.2	0.047	15	50	320	0.20	300
FCI2012F-68N□	0.85±0.2	0.068	15	50	280	0.20	300
FCI2012F-82N□	0.85±0.2	0.082	15	50	255	0.20	300
FCI2012F-R10□	0.85±0.2	0.10	20	25	235	0.30	250
FCI2012F-R12□	0.85±0.2	0.12	20	25	220	0.30	250
FCI2012F-R15□	0.85±0.2	0.15	20	25	200	0.40	250
FCI2012F-R18□	0.85±0.2	0.18	20	25	185	0.40	250
FCI2012F-R22□	0.85±0.2	0.22	20	25	170	0.50	250
FCI2012F-R27□	0.85±0.2	0.27	20	25	150	0.50	250
FCI2012F-R33□	0.85±0.2	0.33	20	25	145	0.55	250
FCI2012F-R39□	0.85±0.2	0.39	25	25	135	0.65	200
FCI2012F-R47□	0.85±0.2	0.47	25	25	125	0.65	200
FCI2012F-R56□	0.85±0.2	0.56	25	25	115	0.75	150
FCI2012F-R68□	0.85±0.2	0.68	25	25	105	0.80	150
FCI2012F-R82□	0.85±0.2	0.82	25	25	100	1.00	150
FCI2012F-1R0□	0.85±0.2	1.0	45	10	75	0.40	50
FCI2012F-1R2□	0.85±0.2	1.2	45	10	65	0.50	50
FCI2012F-1R5□	0.85±0.2	1.5	45	10	60	0.50	50
FCI2012F-1R8□	0.85±0.2	1.8	45	10	55	0.60	50
FCI2012F-2R2□	0.85±0.2	2.2	45	10	50	0.65	30
FCI2012F-2R7□	1.25±0.2	2.7	45	10	45	0.75	30
FCI2012F-3R3□	1.25±0.2	3.3	45	10	41	0.80	30
FCI2012F-3R9□	1.25±0.2	3.9	45	10	38	0.90	30
FCI2012F-4R7□	1.25±0.2	4.7	45	10	35	1.00	30
FCI2012F-5R6□	1.25±0.2	5.6	45	4	32	0.90	15
FCI2012F-6R8□	1.25±0.2	6.8	45	4	29	1.00	15
FCI2012F-8R2□	1.25±0.2	8.2	45	4	26	1.10	15
FCI2012F-100□	1.25±0.2	10.0	45	2	24	1.15	15
FCI2012F-120□	1.25±0.2	12.0	45	2	22	1.25	15
FCI2012F-150□	1.25±0.2	15.0	30	1	19	0.80	5
FCI2012F-180□	1.25±0.2	18.0	30	1	18	0.90	5
FCI2012F-220□	1.25±0.2	22.0	30	1	16	1.10	5
FCI2012F-270□	1.25±0.2	27.0	30	1	14	1.15	5
FCI2012F-330□	1.25±0.2	33.0	30	0.4	13	1.25	5

**FCI 2520 Series**

Part Number	Thickness C size(mm)	Inductance (uH)	Q min	Test Frequency (MHz)	SRF (MHz) min	DC Resistance (Ohm)max	Rated Current (mA)
FCI2520F-R10□	1.6±0.3	0.10	30	25.2	680	0.21	450
FCI2520F-R12□	1.6±0.3	0.12	30	25.2	650	0.22	400
FCI2520F-R15□	1.6±0.3	0.15	30	25.2	530	0.25	400
FCI2520F-R18□	1.6±0.3	0.18	30	25.2	520	0.29	370
FCI2520F-R22□	1.6±0.3	0.22	30	25.2	390	0.30	370
FCI2520F-R27□	1.6±0.3	0.27	30	25.2	330	0.33	350
FCI2520F-R33□	1.6±0.3	0.33	30	25.2	310	0.39	350
FCI2520F-R39□	1.6±0.3	0.39	30	25.2	290	0.40	320
FCI2520F-R47□	1.6±0.3	0.47	30	25.2	240	0.44	300
FCI2520F-R56□	1.6±0.3	0.56	30	25.2	210	0.49	250
FCI2520F-R68□	1.6±0.3	0.68	30	25.2	180	0.52	250
FCI2520F-R82□	1.6±0.3	0.82	30	25.2	155	0.61	200
FCI2520F-1R0□	1.6±0.3	1.0	30	7.96	140	0.75	150
FCI2520F-1R2□	1.6±0.3	1.2	30	7.96	135	0.87	120
FCI2520F-1R5□	1.6±0.3	1.5	30	7.96	130	1.00	110
FCI2520F-1R8□	1.6±0.3	1.8	30	7.96	120	1.10	100
FCI2520F-2R2□	1.6±0.3	2.2	30	7.96	105	1.30	100
FCI2520F-2R7□	1.6±0.3	2.7	30	7.96	90	1.40	100
FCI2520F-3R3□	1.6±0.3	3.3	30	7.96	80	1.60	80
FCI2520F-3R9□	1.6±0.3	3.9	30	7.96	75	1.70	80
FCI2520F-4R7□	1.6±0.3	4.7	30	7.96	65	1.90	80
FCI2520F-5R6□	1.6±0.3	5.6	30	7.96	60	2.20	80
FCI2520F-6R8□	1.6±0.3	6.8	30	7.96	55	2.40	70
FCI2520F-8R2□	1.6±0.3	8.2	30	7.96	50	2.60	50
FCI2520F-100□	1.6±0.3	10.0	30	2.52	30	2.20	30
FCI2520F-120□	1.6±0.3	12.0	25	2.52	27	2.50	20
FCI2520F-150□	1.6±0.3	15.0	25	2.52	23	2.80	20
FCI2520F-180□	1.6±0.3	18.0	25	2.52	22	3.20	20
FCI2520F-220□	1.6±0.3	22.0	25	2.52	21	3.60	20
FCI2520F-270□	1.6±0.3	27.0	25	2.52	19	4.30	15
FCI2520F-330□	1.6±0.3	33.0	25	2.52	17	4.70	15

**FCI 3216 Series**

Part Number	Thickness C size(mm)	Inductance (uH)	Q min	Test Frequency (MHz)	SRF (MHz) min	DC Resistance (Ohm)max	Rated Current (mA)
FCI3216F-47N□	1.1±0.3	0.047	20	50	320	0.15	300
FCI3216F-68N□	1.1±0.3	0.068	20	50	280	0.25	300
FCI3216F-R10□	1.1±0.3	0.10	20	25	235	0.25	250
FCI3216F-R12□	1.1±0.3	0.12	20	25	220	0.30	250
FCI3216F-R15□	1.1±0.3	0.15	20	25	200	0.30	250
FCI3216F-R18□	1.1±0.3	0.18	20	25	185	0.40	250
FCI3216F-R22□	1.1±0.3	0.22	20	25	170	0.40	250
FCI3216F-R27□	1.1±0.3	0.27	20	25	150	0.50	250
FCI3216F-R33□	1.1±0.3	0.33	20	25	145	0.50	250
FCI3216F-R39□	1.1±0.3	0.39	25	25	135	0.60	250
FCI3216F-R47□	1.1±0.3	0.47	25	25	125	0.60	200
FCI3216F-R56□	1.1±0.3	0.56	25	25	115	0.70	200
FCI3216F-R68□	1.1±0.3	0.68	25	25	105	0.80	150
FCI3216F-R82□	1.1±0.3	0.82	25	25	100	0.90	150
FCI3216F-1R0□	1.1±0.3	1.0	45	10	75	0.40	100
FCI3216F-1R2□	1.1±0.3	1.2	45	10	65	0.50	100
FCI3216F-1R5□	1.1±0.3	1.5	45	10	60	0.50	50
FCI3216F-1R8□	1.1±0.3	1.8	45	10	55	0.50	50
FCI3216F-2R2□	1.1±0.3	2.2	45	10	50	0.60	50
FCI3216F-2R7□	1.1±0.3	2.7	45	10	45	0.60	50
FCI3216F-3R3□	1.1±0.3	3.3	45	10	41	0.70	50
FCI3216F-3R9□	1.1±0.3	3.9	45	10	38	0.80	50
FCI3216F-4R7□	1.1±0.3	4.7	45	10	35	0.90	50
FCI3216F-5R6□	1.1±0.3	5.6	50	4	32	0.70	25
FCI3216F-6R8□	1.1±0.3	6.8	50	4	29	0.80	25
FCI3216F-8R2□	1.1±0.3	8.2	50	4	26	0.90	25
FCI3216F-100□	1.1±0.3	10.0	50	2	24	1.00	25
FCI3216F-120□	1.1±0.3	12.0	50	2	22	1.05	15
FCI3216F-150□	1.1±0.3	15.0	35	1	19	0.70	5
FCI3216F-180□	1.1±0.3	18.0	35	1	18	0.70	5
FCI3216F-220□	1.1±0.3	22.0	35	1	16	0.90	5
FCI3216F-270□	1.1±0.3	27.0	35	1	14	0.90	5
FCI3216F-330□	1.1±0.3	33.0	35	0.4	13	1.05	5

**FCI 3225 Series**

Part Number	Thickness C size(mm)	Inductance (uH)	Q min	Test Frequency (MHz)	SRF (MHz) min	DC Resistance (Ohm)max	Rated Current (mA)
FCI3225F-R12□	1.3±0.2	0.12	30	25.2	500	0.22	450
FCI3225F-R15□	1.3±0.2	0.15	30	25.2	450	0.25	450
FCI3225F-R18□	1.3±0.2	0.18	30	25.2	380	0.28	420
FCI3225F-R22□	1.3±0.2	0.22	30	25.2	350	0.32	420
FCI3225F-R27□	1.3±0.2	0.27	30	25.2	260	0.36	420
FCI3225F-R33□	1.3±0.2	0.33	30	25.2	220	0.40	400
FCI3225F-R39□	1.3±0.2	0.39	30	25.2	200	0.45	400
FCI3225F-R47□	1.3±0.2	0.47	30	25.2	180	0.50	370
FCI3225F-R56□	1.3±0.2	0.56	30	25.2	150	0.55	320
FCI3225F-R68□	1.3±0.2	0.68	30	25.2	140	0.60	300
FCI3225F-R82□	1.3±0.2	0.82	30	25.2	130	0.65	280
FCI3225F-1R0□	1.3±0.2	1.0	30	7.96	120	0.70	200
FCI3225F-1R2□	1.3±0.2	1.2	30	7.96	100	0.75	150
FCI3225F-1R5□	1.3±0.2	1.5	30	7.96	85	0.85	150
FCI3225F-1R8□	1.3±0.2	1.8	30	7.96	80	0.90	150
FCI3225F-2R2□	1.3±0.2	2.2	30	7.96	75	1.00	150
FCI3225F-2R7□	1.3±0.2	2.7	30	7.96	70	1.10	120
FCI3225F-3R3□	1.3±0.2	3.3	30	7.96	60	1.20	120
FCI3225F-3R9□	1.3±0.2	3.9	30	7.96	55	1.30	120
FCI3225F-4R7□	1.3±0.2	4.7	30	7.96	50	1.50	120
FCI3225F-5R6□	1.3±0.2	5.6	30	7.96	47	1.60	120
FCI3225F-6R8□	1.3±0.2	6.8	30	7.96	43	1.80	100
FCI3225F-8R2□	1.3±0.2	8.2	30	7.96	40	2.00	90
FCI3225F-100□	1.3±0.2	10.0	30	2.52	36	2.10	45
FCI3225F-120□	1.3±0.2	12.0	30	2.52	33	2.50	45
FCI3225F-150□	1.3±0.2	15.0	30	2.52	30	2.80	35
FCI3225F-180□	1.3±0.2	18.0	30	2.52	27	3.30	35
FCI3225F-220□	1.3±0.2	22.0	30	2.52	25	3.70	35
FCI3225F-270□	1.3±0.2	27.0	30	2.52	20	5.00	15
FCI3225F-330□	1.3±0.2	33.0	30	2.52	17	5.60	15

**FCI 4532 Series**

Part Number	Thickness C size(mm)	Inductance (uH)	Q min	Test Frequency (MHz)	SRF (MHz) min	DC Resistance (Ohm)max	Rated Current (mA)
FCI4532F-R10□	1.5±0.2	0.10	35	25.2	300	0.18	700
FCI4532F-R12□	1.5±0.2	0.12	35	25.2	250	0.20	670
FCI4532F-R15□	1.5±0.2	0.15	35	25.2	180	0.22	670
FCI4532F-R18□	1.5±0.2	0.18	35	25.2	140	0.24	670
FCI4532F-R22□	1.5±0.2	0.22	40	25.2	120	0.25	640
FCI4532F-R27□	1.5±0.2	0.27	40	25.2	105	0.26	605
FCI4532F-R33□	1.5±0.2	0.33	40	25.2	100	0.28	575
FCI4532F-R39□	1.5±0.2	0.39	40	25.2	95	0.30	545
FCI4532F-R47□	1.5±0.2	0.47	40	25.2	90	0.32	510
FCI4532F-R56□	1.5±0.2	0.56	40	25.2	85	0.36	480
FCI4532F-R68□	1.5±0.2	0.68	40	25.2	80	0.40	445
FCI4532F-R82□	1.5±0.2	0.82	40	25.2	75	0.45	415
FCI4532F-1R0□	1.5±0.2	1.0	50	7.96	70	0.50	370
FCI4532F-1R2□	1.5±0.2	1.2	50	7.96	60	0.55	300
FCI4532F-1R5□	1.5±0.2	1.5	50	7.96	54	0.60	300
FCI4532F-1R8□	1.5±0.2	1.8	50	7.96	50	0.65	300
FCI4532F-2R2□	1.5±0.2	2.2	50	7.96	46	0.70	250
FCI4532F-2R7□	1.5±0.2	2.7	50	7.96	43	0.75	170
FCI4532F-3R3□	1.5±0.2	3.3	50	7.96	40	0.80	160
FCI4532F-3R9□	1.5±0.2	3.9	50	7.96	35	0.90	160
FCI4532F-4R7□	1.5±0.2	4.7	50	7.96	32	1.00	150
FCI4532F-5R6□	1.5±0.2	5.6	50	7.96	30	1.10	150
FCI4532F-6R8□	1.5±0.2	6.8	50	7.96	27	1.20	120
FCI4532F-8R2□	1.5±0.2	8.2	50	7.96	25	1.40	100
FCI4532F-100□	1.5±0.2	10.0	50	2.52	20	1.60	65
FCI4532F-120□	1.5±0.2	12.0	50	2.52	18	2.00	60
FCI4532F-150□	1.5±0.2	15.0	50	2.52	17	2.50	55
FCI4532F-180□	1.5±0.2	18.0	50	2.52	15	2.80	45
FCI4532F-220□	1.5±0.2	22.0	50	2.52	13	3.20	45
FCI4532F-270□	1.5±0.2	27.0	50	2.52	12	3.60	40
FCI4532F-330□	1.5±0.2	33.0	50	2.52	11	4.00	40