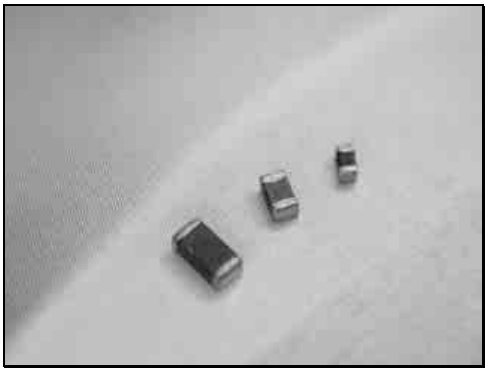
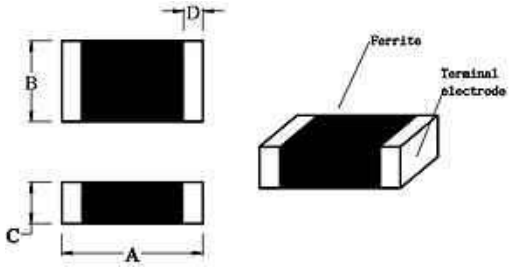
SMD Multilayer Chip Inductor – SCI Series





Features

- SCI Series provides 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

Dimensions

Part No.	A	B	C	D
SCI1608 (0603)	1.6 ± 0.2	0.8 ± 0.2	0.80 ± 0.2	0.3 ± 0.2
SCI2012 (0805) 47N-2R2	2.0 ± 0.2	1.2 ± 0.2	0.90 ± 0.2	0.5 ± 0.3
SCI2012 (0805) 2R7-150	2.0 ± 0.2	1.2 ± 0.2	1.20 ± 0.2	0.5 ± 0.3
SCI2012 (0805) 180-470	2.0 ± 0.2	1.2 ± 0.2	1.25 ± 0.2	0.5 ± 0.3
SCI3216 (1206)	3.2 ± 0.2	1.6 ± 0.2	1.10 ± 0.2	0.3 ± 0.3

Ordering Information

SCI 1608-4R7 K

- Tolerance
- Inductance Value
- Dimensions
- Series

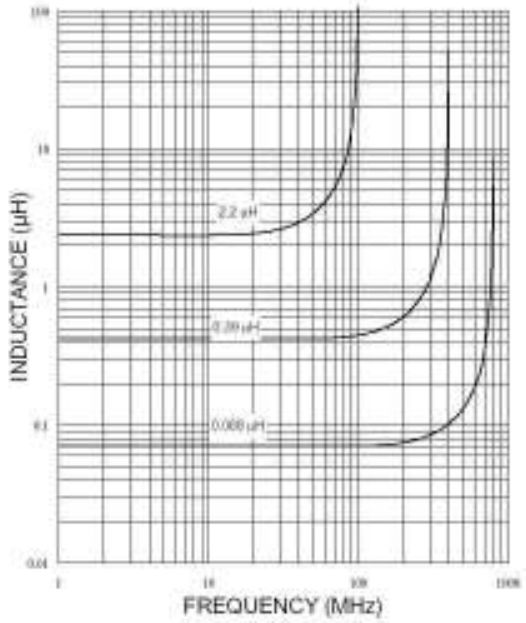
SIZE	SCI1608	SCI2012 (47N-2R2)	SCI2012 (2R7-470)	SCI3216
QTY/REEL	4000pcs.	4000pcs.	2000pcs.	3000pcs.

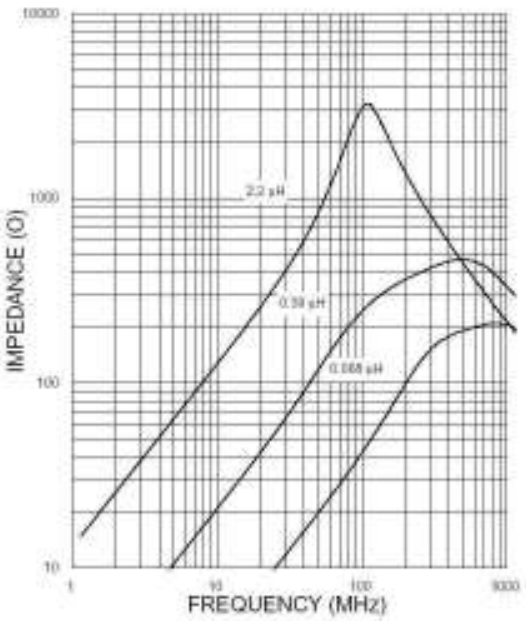
Characteristics-SCI1608

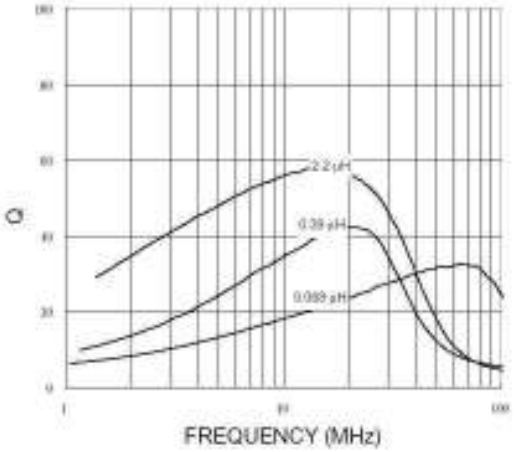
All Series: Tolerance: K = ± 10%; M = ± 20%

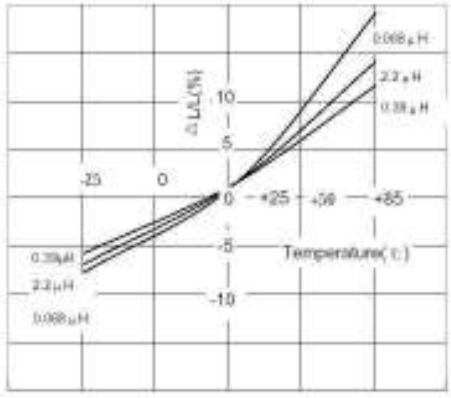
Part No.	Inductance (µH)	Tolerance	Q (min)	Test Frequency (MHz)	SRF Min. (MHz)	RDC Max. (Ω)	IDC Max. (mA)
SCI1608-47NM	0.047	M	10	50	260	0.30	50
SCI1608-68NM	0.068	M	10	50	250	0.30	50
SCI1608-R10 □	0.100	K / M	15	25	240	0.50	50
SCI1608-R12 □	0.120	K / M	15	25	205	0.50	50
SCI1608-R15 □	0.150	K / M	15	25	180	0.60	50
SCI1608-R18 □	0.180	K / M	15	25	165	0.60	50
SCI1608-R22 □	0.220	K / M	15	25	150	0.80	50
SCI1608-R27 □	0.270	K / M	15	25	136	0.80	50
SCI1608-R33 □	0.330	K / M	15	25	125	0.85	35
SCI1608-R39 □	0.390	K / M	15	25	110	1.00	35
SCI1608-R47 □	0.470	K / M	15	25	105	1.35	35
SCI1608-R56 □	0.560	K / M	15	25	95	1.55	35
SCI1608-R68 □	0.680	K / M	15	25	90	1.70	35
SCI1608-R82 □	0.820	K / M	15	25	85	2.10	35
SCI1608-1R0 □	1.000	K / M	35	10	75	0.60	25
SCI1608-1R2 □	1.200	K / M	35	10	65	0.80	25
SCI1608-1R5 □	1.500	K / M	35	10	60	0.80	25
SCI1608-1R8 □	1.800	K / M	35	10	55	0.95	25
SCI1608-2R2 □	2.200	K / M	35	10	50	1.15	15
SCI1608-2R7 □	2.700	K / M	35	10	45	1.35	15
SCI1608-3R3 □	3.300	K / M	35	10	40	1.55	15
SCI1608-3R9 □	3.900	K / M	35	10	35	1.70	15
SCI1608-4R7 □	4.700	K / M	35	10	33	2.10	15
SCI1608-5R6 □	5.600	K / M	35	4	22	1.55	5
SCI1608-6R8 □	6.800	K / M	35	4	20	1.70	5
SCI1608-8R2 □	8.200	K / M	35	4	18	2.10	5
SCI1608-100 □	10.00	K / M	30	2	17	1.85	3
SCI1608-120 □	12.00	K / M	30	2	15	2.10	3
SCI1608-150 □	15.00	K / M	20	1	14	1.70	1

Characteristics-SCI1608





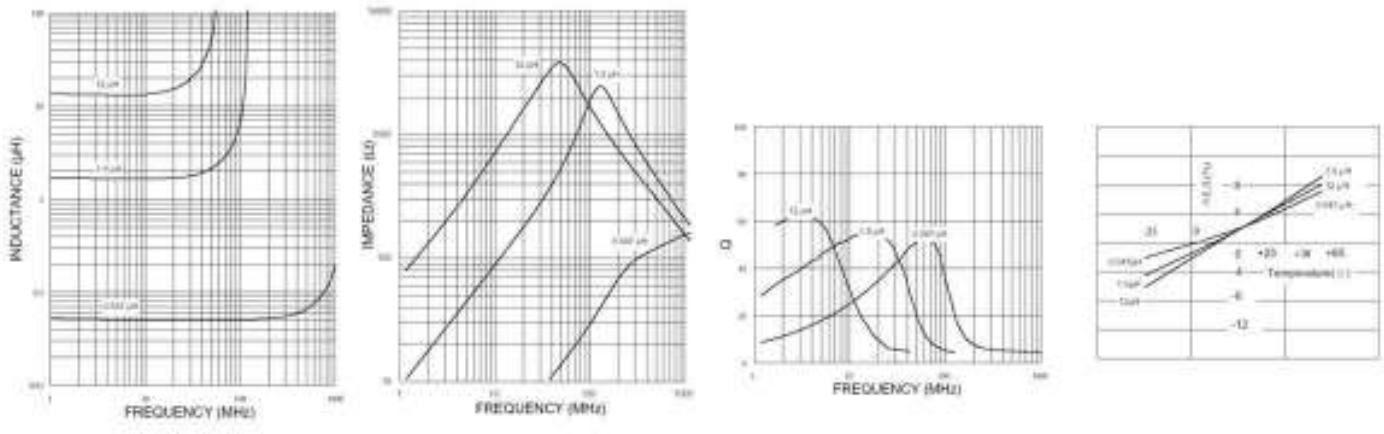




Characteristics-SCI2012

Part No.	Inductance (μH)	Tolerance	Thickness (mm)	Q (min)	Test Frequency (MHz)	SRF Min. (MHz)	RDC Max. (Ω)	IDC Max. (mA)
SCI2012-47NM	0.047	M	0.90 ± 0.2	15	50	320	0.20	300
SCI2012-68NM	0.068	M	0.90 ± 0.2	15	50	280	0.20	300
SCI2012-R10 □	0.100	K / M	0.90 ± 0.2	20	25	235	0.30	250
SCI2012-R12 □	0.120	K / M	0.90 ± 0.2	20	25	220	0.30	250
SCI2012-R15 □	0.150	K / M	0.90 ± 0.2	20	25	200	0.40	250
SCI2012-R18 □	0.180	K / M	0.90 ± 0.2	20	25	185	0.40	250
SCI2012-R22 □	0.220	K / M	0.90 ± 0.2	20	25	170	0.50	250
SCI2012-R27 □	0.270	K / M	0.90 ± 0.2	20	25	150	0.50	250
SCI2012-R33 □	0.330	K / M	0.90 ± 0.2	20	25	145	0.55	250
SCI2012-R39 □	0.390	K / M	0.90 ± 0.2	25	25	135	0.65	200
SCI2012-R47 □	0.470	K / M	0.90 ± 0.2	25	25	125	0.65	200
SCI2012-R56 □	0.560	K / M	0.90 ± 0.2	25	25	115	0.75	150
SCI2012-R68 □	0.680	K / M	0.90 ± 0.2	25	25	105	0.80	150
SCI2012-R82 □	0.820	K / M	0.90 ± 0.2	25	25	100	1.00	150
SCI2012-1R0 □	1.000	K / M	0.90 ± 0.2	45	10	75	0.40	50
SCI2012-1R2 □	1.200	K / M	0.90 ± 0.2	45	10	65	0.50	50
SCI2012-1R5 □	1.500	K / M	0.90 ± 0.2	45	10	60	0.50	50
SCI2012-1R8 □	1.800	K / M	0.90 ± 0.2	45	10	55	0.60	50
SCI2012-2R2 □	2.200	K / M	0.90 ± 0.2	45	10	50	0.65	30
SCI2012-2R7 □	2.700	K / M	1.20 ± 0.2	45	10	45	0.75	30
SCI2012-3R3 □	3.300	K / M	1.20 ± 0.2	45	10	41	0.80	30
SCI2012-3R9 □	3.900	K / M	1.20 ± 0.2	45	10	38	0.90	30
SCI2012-4R7 □	4.700	K / M	1.20 ± 0.2	45	10	35	1.00	30
SCI2012-5R6 □	5.600	K / M	1.20 ± 0.2	50	4.0	32	0.90	15
SCI2012-6R8 □	6.800	K / M	1.20 ± 0.2	50	4.0	29	1.00	15
SCI2012-8R2 □	8.200	K / M	1.20 ± 0.2	50	2.0	26	1.10	15
SCI2012-100 □	10.00	K / M	1.20 ± 0.2	50	2.0	24	1.15	15
SCI2012-120 □	12.00	K / M	1.20 ± 0.2	50	2.0	22	1.25	15
SCI2012-150 □	15.00	K / M	1.20 ± 0.2	30	1.0	19	0.80	5
SCI2012-180 □	18.00	K / M	1.25 ± 0.2	30	1.0	18	0.90	5
SCI2012-220 □	22.00	K / M	1.25 ± 0.2	30	1.0	16	1.10	5
SCI2012-270 □	27.00	K / M	1.25 ± 0.2	30	1.0	14	1.15	5
SCI2012-330 □	33.00	K / M	1.25 ± 0.2	30	0.4	13	1.25	5
SCI2012-390 □	39.00	K / M	1.25 ± 0.2	35	1.0	8	2.90	4
SCI2012-470 □	47.00	K / M	1.25 ± 0.2	35	1.0	8	3.00	4

Please note SCI2012 Series thickness, there are three types of thickness in this series.



Characteristics-SCI3216

Part No.	Inductance (μH)	Tolerance	Q (min)	Test Frequency (MHz)	SRF Min. (MHz)	RDC Max. (Ω)	IDC Max. (mA)
SCI3216-47NM	0.047	M	20	50	320	0.15	300
SCI3216-68NM	0.068	M	20	50	280	0.25	300
SCI3216-R10 □	0.100	K / M	20	25	235	0.25	250
SCI3216-R12 □	0.120	K / M	20	25	220	0.30	250
SCI3216-R15 □	0.150	K / M	20	25	200	0.30	250
SCI3216-R18 □	0.180	K / M	20	25	185	0.40	250
SCI3216-R22 □	0.220	K / M	20	25	170	0.40	250
SCI3216-R27 □	0.270	K / M	20	25	150	0.50	250
SCI3216-R33 □	0.330	K / M	20	25	145	0.60	250
SCI3216-R39 □	0.390	K / M	25	25	135	0.50	200
SCI3216-R47 □	0.470	K / M	25	25	125	0.60	200
SCI3216-R56 □	0.560	K / M	25	25	115	0.70	150
SCI3216-R68 □	0.680	K / M	25	25	105	0.80	150
SCI3216-R82 □	0.820	K / M	25	25	100	0.90	150
SCI3216-1R0 □	1.000	K / M	45	10	75	0.40	100
SCI3216-1R2 □	1.200	K / M	45	10	65	0.50	100
SCI3216-1R5 □	1.500	K / M	45	10	60	0.50	50
SCI3216-1R8 □	1.800	K / M	45	10	55	0.50	50
SCI3216-2R2 □	2.200	K / M	45	10	50	0.60	50
SCI3216-2R7 □	2.700	K / M	45	10	45	0.60	50
SCI3216-3R3 □	3.300	K / M	45	10	41	0.70	50
SCI3216-3R9 □	3.900	K / M	45	10	38	0.80	50
SCI3216-4R7 □	4.700	K / M	45	10	35	0.90	50
SCI3216-5R6 □	5.600	K / M	50	4.0	32	0.70	25
SCI3216-6R8 □	6.800	K / M	50	4.0	29	0.80	25
SCI3216-8R2 □	8.200	K / M	50	4.0	26	0.90	25
SCI3216-100 □	10.00	K / M	50	2.0	24	1.00	25
SCI3216-120 □	12.00	K / M	50	2.0	22	1.05	15
SCI3216-150 □	15.00	K / M	35	1.0	19	0.70	5
SCI3216-180 □	18.00	K / M	35	1.0	18	0.70	5
SCI3216-220 □	22.00	K / M	35	1.0	16	0.90	5
SCI3216-270 □	27.00	K / M	35	1.0	14	0.90	5
SCI3216-330 □	33.00	K / M	35	1.0	13	1.05	5
SCI3216-390 □	39.00	K / M	40	2.0	11	3.00	10
SCI3216-470 □	47.00	K / M	40	2.0	10	3.40	10
SCI3216-560 □	56.00	K / M	40	2.0	9.5	3.80	10