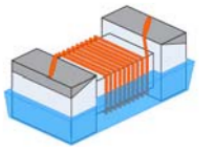
Wire Wound Chip Ceramic Inductors
SLQW****C Series

FEATURES



- Small chip suitable for surface mounting
- High Q value and high self-resonant frequency with ceramic material
- Tight inductance tolerance and high reliability
- Operate temperature range .... －40℃～＋85℃(Including self temp. rise)
- RoHS compliant

APPLICATIONS

- High frequency circuit in telecommunication and other equipments
- Mobile phones such as GSM, CDMA, PDC, etc
- Bluetooth, W-LAN, Broadband network

PRODUCT IDENTIFICATION

SLQW 1005 C 1N0 S T
① ② ③ ④ ⑤ ⑥

① Product Series:Wire Wound Chip Ceramic Inductors

② Dimensions:

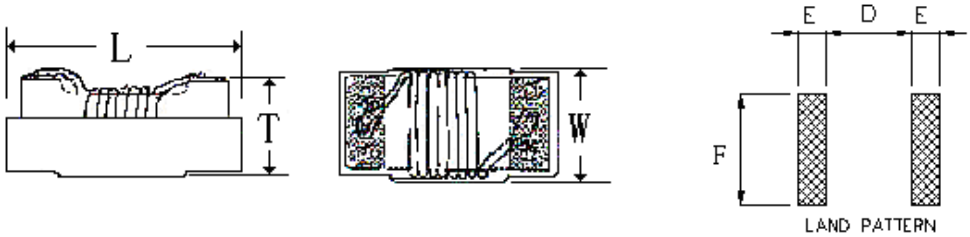
③ Material Code : Ceramic

④ Nominal Inductance:1N0==>1.0nH

⑤ Inductance Tolerance:B±0.1nH,C±0.2nH,S±0.3nH,G±2%,H±3%,J±5%,K±10%,M±20%

⑥ Packing :Tape & Reel

Dimensions: [mm]



Series	L(Max)	W(Max)	T(Max)	E(Typ.)	F(Typ.)	D(Typ.)
SLQW1005C	1.19	0.70	0.64	0.36	0.66	0.46
SLQW1608C	1.80	1.12	0.95	0.64	1.02	0.64
SLQW2012C	2.29	1.73	1.52	1.02	1.78	0.76
SLQW2520C	2.92	2.70	2.23	1.02	2.54	1.27
SLQW3225C	3.50	2.90	2.25	1.02	2.54	1.78
SLQW4532C	4.95	3.85	3.43	1.14	3.05	3.00

Electrical Characteristics List

SLQW1005C Series

NO.	Part Number	L	Freq	Q	SRF	Rdc	Irms
		(nH)	(MHz)	Min	(GHz)Min	(Ω) Max	(mA) Max
1	SLQW1005C1N0JT	1.0	250	10	12.90	0.045	1360
2	SLQW1005C2N2JT	2.2	250	22	10.80	0.090	960
3	SLQW1005C2N7JT	2.7	250	12	10.40	0.170	200
4	SLQW1005C3N3JT	3.3	250	24	7.00	0.076	840
5	SLQW1005C3N9JT	3.9	250	24	6.00	0.076	840
6	SLQW1005C4N7JT	4.7	250	20	4.77	0.130	640
7	SLQW1005C5N6JT	5.6	250	25	4.80	0.110	760
8	SLQW1005C6N8JT	6.8	250	24	4.80	0.120	680
9	SLQW1005C8N2JT	8.2	250	25	4.40	0.150	680
10	SLQW1005C10NJT	10.0	250	24	3.90	0.200	480
11	SLQW1005C12NJT	12.0	250	26	3.60	0.120	640
12	SLQW1005C15NJT	15.0	250	26	3.28	0.170	560
13	SLQW1005C18NJT	18.0	250	25	3.10	0.230	420
14	SLQW1005C20NJT	20.0	250	26	3.00	0.250	420
15	SLQW1005C22NJT	22.0	250	25	2.80	0.300	400
16	SLQW1005C27NJT	27.0	250	25	2.48	0.300	400
17	SLQW1005C33NJT	33.0	250	24	2.35	0.400	400

NO.	Part Number	L	Freq	Q	SRF	Rdc	Irms
		(nH)	(MHz)	Min	(GHz)Min	(Ω) Max	(mA) Max
18	SLQW1005C39NJT	39.0	250	25	2.10	0.550	200
19	SLQW1005C47NJT	47.0	250	25	2.10	0.830	150
20	SLQW1005C56NJT	56.0	250	25	1.76	0.970	100
21	SLQW1005C68NJT	68.0	250	25	1.62	1.500	100
22	SLQW1005C82NJT	82.0	250	25	1.26	1.800	50
23	SLQW1005C91NJT	91.0	250	24	1.16	2.200	30
24	SLQW1005CR10JT	100.0	250	24	1.16	2.500	30
25	SLQW1005CR12JT	120.0	250	24	1.10	2.200	30
26	SLQW1005CR15JT	150.0	250	10	1.00	4.000	20

SLQW1608C Series

NO.	Part Number	L	Freq	Q	SRF	Rdc	Irms
		(nH)	(MHz)	Min	(MHz)Min	(Ω) Max	(mA)
1	SLQW1608C2N2JT	2.2	100	12	12500	0.25	100
2	SLQW1608C2N7JT	2.7	250	22	5900	0.045	700
3	SLQW1608C4N7JT	4.7	250	20	5800	0.116	700
4	SLQW1608C6N8JT	6.8	250	27	5800	0.11	700
5	SLQW1608C8N2JT	8.2	250	30	4200	0.115	700
6	SLQW1608C10NJT	10	250	31	4800	0.13	700
7	SLQW1608C15NJT	15	250	35	4000	0.17	700
8	SLQW1608C18NJT	18	250	35	3100	0.17	700
9	SLQW1608C22NJT	22	250	38	3000	0.19	700
10	SLQW1608C27NJT	27	250	40	2800	0.22	600
11	SLQW1608C43NJT	43	250	38	2000	0.28	600
12	SLQW1608C47NJT	47	200	38	2000	0.28	600
13	SLQW1608C56NJT	56	200	38	1900	0.31	600
14	SLQW1608C68NJT	68	200	37	1700	0.34	600
15	SLQW1608C82NJT	82	150	34	1700	0.54	400
16	SLQW1608C91NJT	91	150	28	1600	0.58	400
17	SLQW1608CR10JT	100	150	34	1400	0.58	400
18	SLQW1608CR12JT	120	150	32	1300	0.65	300
19	SLQW1608CR15JT	150	150	28	990	0.92	280
20	SLQW1608CR16JT	160	150	28	990	1.25	280
21	SLQW1608CR20JT	200	100	25	900	1.98	200
22	SLQW1608CR22JT	220	100	25	900	2.1	200
23	SLQW1608CR24JT	240	100	25	900	2.2	200
24	SLQW1608CR27JT	270	100	26	830	2.16	170
25	SLQW1608CR29JT	290	100	25	800	3.2	100
26	SLQW1608CR30JT	300	100	25	790	2.5	100
27	SLQW1608CR33JT	330	100	25	790	3.89	100
28	SLQW1608CR39JT	390	100	25	780	4.35	100
29	SLQW1608CR47JT	470	100	25	700	4.5	100
30	SLQW1608CR56JT	560	100	23	460	5	90

SLQW2012C Series

NO.	Part Number	L	Freq	Q	SRF	Rdc	Irms
		(nH)	(MHz)	Min	(MHz)Min	(Ω) Max	(mA) Max
1	SLQW2012C2N2JT	2.2	250	50@1GHz	7900	0.06	800
2	SLQW2012C2N7JT	2.7	250	50@1GHz	7900	0.06	800
3	SLQW2012C3N0JT	3	250	40@1.5GHz	7900	0.06	800
4	SLQW2012C3N3JT	3.3	250	40@1.5GHz	7900	0.08	600
5	SLQW2012C3N6JT	3.6	250	20@1GHz	7900	0.2	200
6	SLQW2012C3N9JT	3.9	250	20@1GHz	7900	0.2	150
7	SLQW2012C4N7JT	4.7	250	35@1GHz	6200	0.08	600
8	SLQW2012C5N1JT	5.1	250	50@1GHz	6200	0.08	600
9	SLQW2012C5N6JT	5.6	250	65@1GHz	5900	0.08	600
10	SLQW2012C6N2JT	6.2	250	65@1GHz	5900	0.08	600
11	SLQW2012C6N8JT	6.8	250	50@1GHz	5600	0.11	600
12	SLQW2012C7N5JT	7.5	250	50@1GHz	4800	0.14	600
13	SLQW2012C8N2JT	8.2	250	50@1GHz	4400	0.12	600
14	SLQW2012C9N1JT	9.1	250	60@500MHz	4300	0.1	600
15	SLQW2012C10NJT	10	250	60@500MHz	4300	0.1	600
16	SLQW2012C12NJT	12	250	50@500MHz	4000	0.15	600
17	SLQW2012C15NJT	15	250	50@500MHz	3200	0.17	600
18	SLQW2012C16NJT	16	250	50@500MHz	3200	0.17	600
19	SLQW2012C18NJT	18	250	50@500MHz	3100	0.2	600
20	SLQW2012C20NJT	20	250	55@500MHz	2600	0.22	500
21	SLQW2012C22NJT	22	250	55@500MHz	2600	0.22	500
22	SLQW2012C23NJT	23	250	50@500MHz	2400	0.22	500
23	SLQW2012C24NJT	24	250	50@500MHz	2400	0.22	500
24	SLQW2012C25NJT	25	250	50@500MHz	2450	0.22	500
25	SLQW2012C27NJT	27	250	55@500MHz	2580	0.25	500
26	SLQW2012C30NJT	30	250	55@500MHz	2400	0.25	500
27	SLQW2012C33NJT	33	250	60@500MHz	2150	0.27	500
28	SLQW2012C36NJT	36	250	55@500MHz	1900	0.27	500
29	SLQW2012C39NJT	39	250	60@500MHz	1850	0.29	500
30	SLQW2012C43NJT	43	200	60@500MHz	1800	0.34	500
31	SLQW2012C47NJT	47	200	60@500MHz	1700	0.31	500
32	SLQW2012C50NJT	50	200	60@500MHz	1650	0.34	500
33	SLQW2012C56NJT	56	200	60@500MHz	1600	0.34	500
34	SLQW2012C62NJT	62	200	60@500MHz	1450	0.36	500
35	SLQW2012C64NJT	64	200	60@500MHz	1500	0.38	500
36	SLQW2012C68NJT	68	200	60@500MHz	1500	0.38	500
37	SLQW2012C72NJT	72	150	60@500MHz	1400	0.38	500
38	SLQW2012C75NJT	75	150	60@500MHz	1400	0.4	450
39	SLQW2012C78NJT	78	150	60@500MHz	1400	0.4	450
40	SLQW2012C82NJT	82	150	65@500MHz	1330	0.42	400

NO.	Part Number	L	Freq	Q	SRF	Rdc	Irms
		(nH)	(MHz)	Min	(MHz)Min	(Ω) Max	(mA) Max
41	SLQW2012C91NJT	91	150	65@500MHz	1330	0.48	400
42	SLQW2012CR10JT	100	150	65@500MHz	1250	0.46	400
43	SLQW2012CR11JT	110	150	50@250MHz	1100	0.48	400
44	SLQW2012CR12JT	120	150	50@250MHz	1100	0.51	400
45	SLQW2012CR13JT	130	100	50@250MHz	920	0.56	400
46	SLQW2012CR14JT	140	100	50@250MHz	920	0.56	400
47	SLQW2012CR15JT	150	100	50@250MHz	920	0.56	400
48	SLQW2012CR16JT	160	100	50@250MHz	920	0.6	400
49	SLQW2012CR18JT	180	100	50@250MHz	920	0.64	400
50	SLQW2012CR20JT	200	100	50@250MHz	860	0.68	400
51	SLQW2012CR21JT	210	100	50@250MHz	820	0.7	400
52	SLQW2012CR22JT	220	100	50@250MHz	820	0.7	400
53	SLQW2012CR24JT	240	100	44@250MHz	750	1.0	350
54	SLQW2012CR25JT	250	100	45@250MHz	750	1.2	350
55	SLQW2012CR27JT	270	100	48@250MHz	730	1.0	350
56	SLQW2012CR28JT	280	100	48@250MHz	550	1.35	350
57	SLQW2012CR29JT	290	150	48@250MHz	450	1.4	310
58	SLQW2012CR30JT	300	150	48@250MHz	450	1.4	310
59	SLQW2012CR33JT	330	100	48@250MHz	650	1.4	310
60	SLQW2012CR36JT	360	100	48@250MHz	630	1.45	300
61	SLQW2012CR39JT	390	100	48@250MHz	600	1.5	290
62	SLQW2012CR42JT	420	50	33@100MHz	425	1.7	250
63	SLQW2012CR43JT	430	50	33@100MHz	425	1.7	250
64	SLQW2012CR47JT	470	50	33@100MHz	375	1.76	250
65	SLQW2012CR56JT	560	25	23@50MHz	330	1.9	230
66	SLQW2012CR62JT	620	25	23@50MHz	320	2.2	210
67	SLQW2012CR68JT	680	25	23@50MHz	310	2.2	190
68	SLQW2012CR75JT	750	25	23@50MHz	310	2.3	180
69	SLQW2012CR82JT	820	25	23@50MHz	310	2.35	180
70	SLQW2012CR88JT	880	25	23@50MHz	310	2.35	180
71	SLQW2012CR91JT	910	25	22@50MHz	250	2.45	170
72	SLQW2012C1R0JT	1000	25	20@50MHz	220	2.5	170
73	SLQW2012C1R2JT	1200	25	20@25MHz	180	2.9	150
74	SLQW2012C1R5JT	1500	25	20@25MHz	160	3.3	150
75	SLQW2012C1R6JT	1600	25	20@25MHz	140	3.4	150
76	SLQW2012C1R8JT	1800	25	20@25MHz	130	3.5	120
77	SLQW2012C2R2JT	2200	25	20@25MHz	100	4.5	120
78	SLQW2012C2R7JT	2700	25	18@25MHz	80	4.8	100
79	SLQW2012C3R3JT	3300	25	18@25MHz	50	6.8	50
80	SLQW2012C4R7JT	4700	25	18@25MHz	40	7	30

SLQW2520C Series

NO.	Part Number	L	Freq	Q	SRF	Rdc	Irms
		(nH)	(MHz)	Min	(MHz)Min	(Ω) Max	(mA) Max
1	SLQW2520C22NJT	22	50	55@350MHz	2400	0.12	1000
2	SLQW2520C39NJT	39	50	60@350MHz	1500	0.15	1000
3	SLQW2520C47NJT	47	50	65@350MHz	1500	0.16	1000
4	SLQW2520C56NJT	56	50	65@350MHz	1300	0.18	1000
5	SLQW2520C68NJT	68	50	65@350MHz	1300	0.20	1000
6	SLQW2520C91NJT	91	50	60@350MHz	1000	0.56	650
7	SLQW2520CR10JT	100	25	60@350MHz	1000	0.56	650
8	SLQW2520CR12JT	120	25	60@350MHz	950	0.63	650
9	SLQW2520CR15JT	150	25	45@100MHz	850	0.70	580
10	SLQW2520CR18JT	180	25	45@100MHz	750	0.77	620
11	SLQW2520CR20JT	200	25	45@100MHz	700	0.84	500
12	SLQW2520CR22JT	220	25	45@100MH	700	0.84	500
13	SLQW2520CR27JT	270	25	45@100MHz	600	0.91	500
14	SLQW2520CR33JT	330	25	45@100MHz	570	1.05	450
15	SLQW2520CR39JT	390	25	45@100MHz	500	1.12	470
16	SLQW2520CR47JT	470	25	45@100MHz	450	1.19	470
17	SLQW2520CR56JT	560	25	45@100MHz	415	1.33	400
18	SLQW2520CR68JT	680	25	45@100MHz	375	1.47	400
19	SLQW2520CR82JT	820	25	45@100MHz	350	1.61	400
20	SLQW2520CR91JT	910	25	35@50MHz	320	1.68	380
21	SLQW2520C1R0JT	1000	25	35@50MHz	290	1.80	370
22	SLQW2520C1R2JT	1200	7.9	35@50MHz	250	2.00	310
23	SLQW2520C1R5JT	1500	7.9	28@50MHZ	200	2.30	330
24	SLQW2520C1R8JT	1800	7.9	28@50MHZ	160	2.60	300
25	SLQW2520C2R2JT	2200	7.9	28@50MHZ	160	2.80	280
26	SLQW2520C2R7JT	2700	7.9	22@25MHz	140	3.20	290
27	SLQW2520C3R3JT	3300	7.9	22@25MHz	110	3.40	290
28	SLQW2520C3R9JT	3900	7.9	20@25MHz	100	3.60	260
29	SLQW2520C4R7JT	4700	7.9	20@7.9MHz	60	4.00	260
30	SLQW2520C5R6JT	5600	7.9	16@7.9MHz	20	5.70	240
31	SLQW2520C6R8JT	6800	7.9	18@7.9MHz	40	7.70	200
32	SLQW2520C8R2JT	8200	7.9	18@7.9MHz	25	10.70	170
33	SLQW2520C100JT	10000	7.9	18@7.9MHz	25	12.70	100

SLQW3225C Series

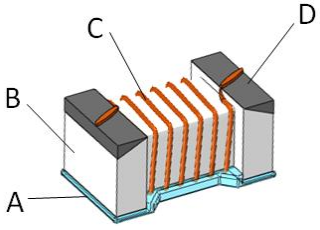
NO.	Part Number	Inductance (nH)	Test Freq (MHz)	Q Min	SRF (MHz)Min	Rdc (Ω) Max	Irms (mA) Max
1	SLQW3225C10NJT	10	100	40@300MHZ	4000	0.08	1000
2	SLQW3225C12NJT	12	100	40@300MHZ	3200	0.08	1000
3	SLQW3225C15NJT	15	100	40@300MHZ	3200	0.2	1000
4	SLQW3225C18NJT	18	100	50@300MHZ	2800	0.1	1000
5	SLQW3225C22NJT	22	100	50@300MHZ	2200	0.1	1000
6	SLQW3225C27NJT	27	100	50@300MHZ	1800	0.11	1000
7	SLQW3225C33NJT	33	100	55@300MHZ	1800	0.11	1000
8	SLQW3225C39NJT	39	100	55@300MHZ	1500	0.12	1000
9	SLQW3225C43NJT	43	100	55@300MHZ	1500	0.12	1000
10	SLQW3225C47NJT	47	100	55@300MHZ	1500	0.13	1000
11	SLQW3225C56NJT	56	100	55@300MHZ	1450	0.14	1000
12	SLQW3225C68NJT	68	100	55@300MHZ	1200	0.15	900
13	SLQW3225C82NJT	82	100	55@300MHZ	1000	0.2	900
14	SLQW3225C91NJT	91	100	60@300MHZ	1100	0.2	1000
15	SLQW3225CR10JT	100	100	55@300MHZ	900	0.2	850
16	SLQW3225CR12JT	120	100	60@300MHZ	800	0.25	800
17	SLQW3225CR15JT	150	100	60@300MHZ	700	0.3	750
18	SLQW3225CR18JT	180	50	60@300MHZ	650	0.3	700
19	SLQW3225CR22JT	220	50	60@300MHZ	650	0.4	770
20	SLQW3225CR24JT	240	50	40@300MHZ	580	0.4	630
21	SLQW3225CR27JT	270	50	40@300MHZ	580	0.4	630
22	SLQW3225CR33JT	330	50	45@150MHZ	580	0.58	590
23	SLQW3225CR36JT	360	50	45@150MHZ	510	0.58	530

NO.	Part Number	Inductance (nH)	Test Freq (MHz)	Q Min	SRF (MHz)Min	Rdc (Ω) Max	Irms (mA) Max
24	SLQW3225CR39JT	390	50	45@150MHZ	510	0.58	530
25	SLQW3225CR47JT	470	50	45@150MHZ	480	1	490
26	SLQW3225CR56JT	560	25	45@150MHZ	420	1.1	460
27	SLQW3225CR68JT	680	25	45@150MHZ	400	1.2	430
28	SLQW3225CR82JT	820	25	45@150MHZ	370	2	400
29	SLQW3225C1R0JT	1000	25	45@150MHZ	340	1.85	320
30	SLQW3225C1R2JT	1200	25	45@150MHZ	220	2.3	300
31	SLQW3225C1R5JT	1500	7.9	20@520MHZ	160	2.7	310
32	SLQW3225C1R8JT	1800	7.9	30@50MHZ	160	3.5	310
33	SLQW3225C2R2JT	2200	7.9	25@50MHZ	130	2.41	310
34	SLQW3225C2R7JT	2700	7.9	25@50MHZ	110	3.5	300
35	SLQW3225C3R0JT	3000	7.9	20@25MHZ	110	3.5	300
36	SLQW3225C3R3JT	3300	7.9	20@25MHZ	60	3.6	290
37	SLQW3225C3R9JT	3900	7.9	20@25MHZ	60	4	290
38	SLQW3225C4R7JT	4700	7.9	20@25MHZ	60	5	280
39	SLQW3225C5R2JT	5200	7.9	15@25MHZ	50	6	250
40	SLQW3225C5R6JT	5600	7.9	15@25MHZ	50	6	250
41	SLQW3225C6R8JT	6800	7.9	15@7.9MHZ	40	9	230
42	SLQW3225C7R5JT	7500	7.9	20@7.9MHZ	50	9.5	170
43	SLQW3225C8R2JT	8200	7.9	20@7.9MHZ	50	9.5	170
44	SLQW3225C8R6JT	8600	7.9	15@7.9MHZ	40	9	200
45	SLQW3225C100JT	10000	7.9	15@7.9MHZ	30	10	150

SLQW4532C Series

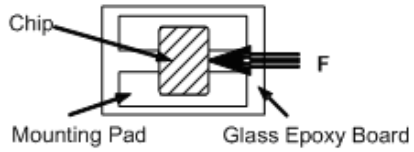
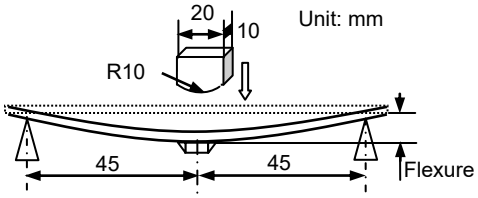
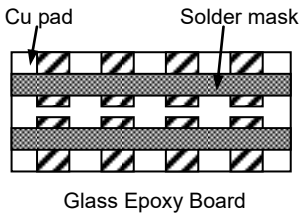
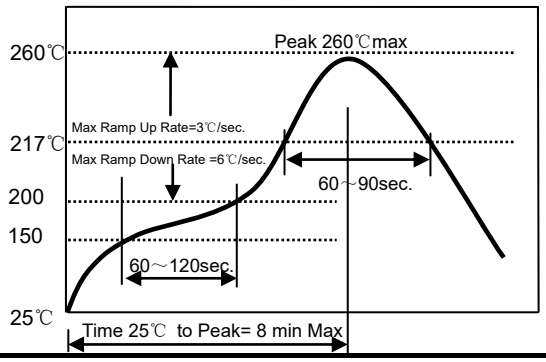
NO.	Part Number	Inductance	Test Freq	Q	SRF	Rdc	Irms	产品公差
		(μH)	(MHz)	Min	(MHz)Min	(Ω) Max	(mA) Max	
1	SLQW4532CR10□T	0.10	7.9	60 @50MHZ	400	0.60	480	J,K,M
2	SLQW4532CR12□T	0.12	25	50 @25MHZ	900	0.10	480	J,K,M
3	SLQW4532CR15□T	0.15	25	50 @25MHZ	700	0.12	480	J,K,M
4	SLQW4532CR18□T	0.18	25	50 @25MHZ	700	0.13	480	J,K,M
5	SLQW4532CR22□T	0.22	25	50 @25MHZ	500	0.14	480	J,K,M
6	SLQW4532CR27□T	0.27	25	50 @25MHZ	500	0.15	480	J,K,M
7	SLQW4532CR33□T	0.33	7.9	60 @50MHZ	400	0.70	480	J,K,M
8	SLQW4532CR39□T	0.39	7.9	60 @50MHZ	400	0.80	480	J,K,M
9	SLQW4532CR75□T	0.75	7.9	60 @50MHZ	350	0.65	750	J,K,M
10	SLQW4532C1R0□T	1.00	7.9	60 @50MHZ	250	1.20	480	J,K,M
11	SLQW4532C1R5□T	1.50	7.9	60 @50MHZ	210	1.60	430	J,K,M
12	SLQW4532C2R2□T	2.20	7.9	35 @50MHZ	150	2.20	340	J,K,M
13	SLQW4532C2R7□T	2.70	7.9	55 @50MHZ	150	3.20	300	J,K,M
14	SLQW4532C3R3□T	3.30	7.9	55 @50MHZ	130	3.80	270	J,K,M
15	SLQW4532C3R9□T	3.90	7.9	55 @50MHZ	120	5.00	240	J,K,M
16	SLQW4532C4R7□T	4.70	7.9	25 @50MHZ	90	5.40	230	J,K,M
17	SLQW4532C5R6□T	5.60	7.9	45 @50MHZ	90	5.70	220	J,K,M
18	SLQW4532C6R8□T	6.80	7.9	30 @50MHZ	80	6.60	210	J,K,M
19	SLQW4532C8R2□T	8.20	7.9	20 @50MHZ	70	7.00	200	J,K,M
20	SLQW4532C100□T	10.00	7.9	15 @50MHZ	50	7.70	190	G,J,K,M
21	SLQW4532C120□T	12.00	2.5	30 @10MHZ	50	8.70	180	G,J,K,M
22	SLQW4532C150□T	15.00	2.5	30 @10MHZ	30	9.60	170	G,J,K,M
23	SLQW4532C180□T	18.00	2.5	25 @10MHZ	30	10.50	160	G,J,K,M
24	SLQW4532C220□T	22.00	2.5	25 @10MHZ	20	11.50	155	G,J,K,M
25	SLQW4532C270□T	27.00	2.5	25 @10MHZ	20	12.50	150	G,J,K,M
26	SLQW4532C330□T	33.00	2.5	10 @10MHZ	10	13.50	145	G,J,K,M

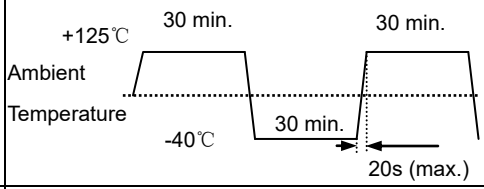
Structure: See the following.



No.	Components	Material
A	Coating	Ultraviolet epoxy resin
B	Core	Ceramic
C	Wire	Polyurethane system enameled copper wire
D	Electrodes	Ag/ Ag-Pd/Mo-Mn with Ni and Sn plating

Reliability Test

Items	Requirements	Test Methods and Remarks
Terminal Strength	No removal or split of the termination or other defects shall occur. 	① Solder the inductor to the testing jig (glass epoxy board) using eutectic solder. Then apply a force in the direction of the arrow. ② 7N force. ③ Keep time: 10±1s ④ Speed: 1.0 mm/s.
Resistance to Flexure	No visible mechanical damage. 	① Solder the inductor to the test jig. Using a eutectic solder. Then apply a force in the direction shown as left. ② Flexure: 2mm ③ Pressurizing Speed: 0.5mm/sec. ④ Keep time: 5sec.
Vibration	① No visible mechanical damage. ② Inductance change: within ±5% ③ Q factor change: within ±20% 	① Solder the inductor to the testing jig (glass epoxy board)using eutectic solder. ② The inductor shall be subjected to a simple harmonic motion having total amplitude of 1.5mm, the frequency being varied uniformly between the approximate limits of 10 and 55 Hz. ③ The frequency range from 10 to 55 Hz and return to 10 Hz shall be traversed in approximately 1 minute. This motion shall be applied for a period of 2 hours in each 3 mutually perpendicular directions (total of 6 hours)
Dropping	① No visible mechanical damage. ② Inductance change: within ±5% ③ Q factor change: within ±20%	Drop chip inductor 10 times on a concrete floor from a height of 100 cm.
Solderability	90% or more of electrode area shall be Coated by new solder.	① Electrode of the coil shall be immersed in flux for 5 to 10 Seconds. ② The coil shall be immersed in solder bath at a temperature of 240±5℃, Duration for 3±0.5 seconds. ③ Solder: Sn/3.0Ag/0.5Cu ④ Flux: 25% Resin and 75% ethanol in weight.
Resistance to Soldering Heat	① No visible mechanical damage. ② Inductance change: within ±5% ③ Q factor change: within ±20%	Re-flowing Profile: 

Items	Requirements	Test Methods and Remarks
Thermal Shock	① No visible mechanical damage. ② Inductance change: within ±5% ③ Q factor change: within ±20%	① Temperature, Time: -40℃ for 30±3 min→+125℃ for 30±3min ② Transforming interval: 20s (max.) ③ Tested cycle: 100 cycles ④ The chip shall be stabilized at normal condition for 1~2 hours before measuring.
		
Resistance to Low Temperature	① No visible mechanical damage. ② Inductance change: within ±5% ③ Q factor change: within ±20%	① Temperature: -40±2℃ ② Duration: 1000^{+24} hours ③ The chip shall be stabilized at normal condition for 1~2 hours before measuring.
Resistance to High Temperature	① No mechanical damage. ② Inductance change: within ±5% ③ Q factor change: within ±20%	① Temperature: 125±2 ℃ ② Duration: 1000^{+24} hours ③ The chip shall be stabilized at normal condition for 1~2 hours before measuring.
Damp Heat (Steady States)	① No mechanical damage. ② Inductance change: within ±5% ③ Q factor change: within ±20%	① Temperature: 60±2℃, Humidity: 90% to 95% RH ② Duration: 1000^{+24} hours ③ The chip shall be stabilized at normal condition for 1~2 hours before measuring.
Loading Under Damp Heat	① No mechanical damage. ② Inductance change: within ±5% ③ Q factor change: within ±20%	① Temperature: 60±2℃ ,Humidity: 90% to 95% RH ② Duration: 1000^{+24}hours ③ Applied current: Rated current. ④ The chip shall be stabilized at normal condition for 1~2 hours before measuring.
Loading at High Temperature (Life Test)	① No mechanical damage. ② Inductance change: within ±5% ③ Q factor change: within ±20%	① Temperature: 125±2 ℃ ② Duration: 1000^{+24}hours ③ Applied current: Rated current. ④ The chip shall be stabilized at normal condition for 1~2 hours before measuring.

Packaging

(PACKAGING QUANTITY)

规格	1005	1608	2012	2520	3225	4532
数量(pcs)	10000	4000	2000	2000	2000	500