

Data Sheet

Conformal Inductors

BN	Model no.
1569137	LGA0307-022
1565824	LGA0307-033
1569148	LGA0307-039
1565828	LGA0307-047
1565829	LGA0307-056
1569156	LGA0307-068
1564757	LGA0307-082
1569157	LGA0307-1
1569158	LGA0307-1.2
1565820	LGA0307-1.5
1569138	LGA0307-1.8
1569139	LGA0307-2.2
1570523	LGA0307-2.7
1565821	LGA0307-3.3
1569140	LGA0307-4.7
1569141	LGA0307-5.6
1565822	LGA0307-6.8
1565823	LGA0307-8.2

BN	Model no.
1569142	LGA0307-10
1569144	LGA0307-15
1564382	LGA0307-22
1564383	LGA0307-27
1564384	LGA0307-33
1569145	LGA0307-39
1569146	LGA0307-47
1569147	LGA0307-56
1570524	LGA0307-68
1569150	LGA0307-100
1569151	LGA0307-120
1570525	LGA0307-180
1565826	LGA0307-220
1564385	LGA0307-330
1565827	LGA0307-390
1569154	LGA0307-470
1564755	LGA0307-560
1569155	LGA0307-680

BN	Model no.
1564756	LGA0307-820
1572810	LGA0410-022
1572811	LGA0410-027
1572812	LGA0410-033
1571746	LGA0410-039
1572814	LGA0410-056
1571747	LGA0410-068
1572815	LGA0410-082
1571748	LGA0410-1
1572816	LGA0410-1.2
1571749	LGA0410-1.5
1572817	LGA0410-1.8
1572818	LGA0410-2.2
1572819	LGA0410-2.7
1572820	LGA0410-3.3
1572821	LGA0410-3.9
1572822	LGA0410-4.7
1572823	LGA0410-5.6

BN	Model no.
1572826	LGA0410-10
1571750	LGA0410-12
1572827	LGA0410-15
1572828	LGA0410-18
1572829	LGA0410-22
1572830	LGA0410-27
1572831	LGA0410-33
1572832	LGA0410-39
1572833	LGA0410-47
1571751	LGA0410-56
1572834	LGA0410-68
1572835	LGA0410-82
1572836	LGA0410-100
1572837	LGA0410-120
1571752	LGA0410-150
1572839	LGA0410-220
1572840	LGA0410-270
1572841	LGA0410-330

BN	Model no.
1572842	LGA0410-390
1571753	LGA0410-470
1572843	LGA0410-560
1572844	LGA0410-680
1572845	LGA0410-820
1571754	LGA0410-1000
1572846	LGA0510-470
1572847	LGA0510-560
1572848	LGA0510-680
1571755	LGA0510-1000
1571756	LGA0510-1200
1571757	LGA0510-1500
1572849	LGA0510-820
1572850	LGA0510-3300
1571744	LGA0510-4700
1572807	LGA0510-5600
1572808	LGA0510-6800
1571745	LGA0510-8200
1572809	LGA0510-10000

Data Sheet

■ Features

- 1、 This LGA series inductors are available in 4 from factors ranging from 0307 to 0512.
- 2、 These are coaxial horizontal types, highly miniaturized and light-weight.
- 3、 Epoxy resin construction assures high reliability.

■ Applications

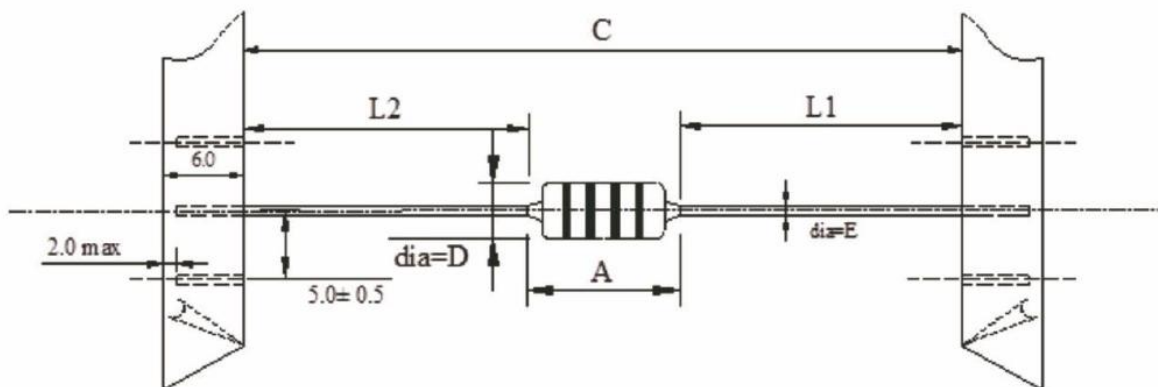
Televisions, VCR, OA equipment, PC, Other electronic equipment, etc.

■ Part numbering system

<u>LGA</u>	<u>□□□□</u>	-	<u>□□□</u>	<u>□</u>	-	<u>□□</u>
1	2		3	4		5
Series name	dimensions		inductance	tolerance code		packing code
				J:±5%,K: ±10%		T:tape&reel
				M: ±20%		A or B:tapes 26mm or 52mm

■ Shapes and dimensions

(UNIT:mm)



LGA0307TYPE:A:7.0maxD:3.0maxC:(52 or 26) 52 ± 1.0 E:0.50 |L1-L2| <1.0

LGA0410TYPE:A:10.0maxD:4.0maxC:52 ± 1.0 E:0.60 |L1-L2| <1.0

LGA0510TYPE:A:10.0maxD:5.0maxC:52 ± 1.0 E:0.60 |L1-L2| <1.0

LGA0512TYPE:A:12.0maxD:5.0maxC:52 ± 1.0 E:0.60 |L1-L2| <1.0

Data Sheet

■ Color code table

Color	Effective number	Multiplier	Inductance tolerance
Black	0	1	± 20%
Brown	1	10	-
Red	2	100	-
Orange	3	1000	-
Yellow	4	-----	-
Green	5	-----	-
Blue	6	-----	-
Purple	7	-----	-
Gray	8	-----	-
White	9	-----	-
Silver	-	0.01	± 10%
Gold	-	0.1	± 5%

Color code marking(from left)

- 1, The first effective number
- 2, The second effective number
- 3, Multiplier
- 4, Inductance tolerance

Packaging style and quantities

Packaging style	Type	Quantity
Taping(Ammo-pack)	LGA0307	2000 pieces/box
	LGA0410	2000 pieces/box
	LGA0510(2)	1000 pieces/box

■ CHARACTERISTICS

Operation temperature range:	-20°C to +100°C
	[including self- temperature rise,20°C max]
Withstand voltage Erms:	250V
Rated current :	Based on temperature rise
Terminal tensile strength:	20N min
Terminal bending strength:	4.9N min
Moisture resistance:	ΔL/L≤5% ΔQ/Q≤20%

Data Sheet

LGA SERIES LGA0307 TYPE CHARACTERISTICS

Inductance (uH)	Tolerance	Qmin	Test Fre L,Q(MHz)	Self-resonant fre.(MHz min)	DC resistance ohm(max)	Rated current mA(max)
0.22	M	35	25.2	150	0.40	400
0.33	M	35	25.2	150	0.48	370
0.39	M	35	25.2	150	0.51	350
0.47	M	35	25.2	150	0.56	330
0.56	M	40	25.2	150	0.61	320
0.68	M	40	25.2	150	0.67	310
0.82	M	40	25.2	150	0.74	290
1.00	M	40	25.2	150	0.80	270
1.20	M	50	7.96	140	0.90	260
1.50	M	50	7.96	130	1.00	250
1.80	M	50	7.96	120	1.10	240
2.20	M	50	7.96	110	1.20	230
2.70	M	50	7.96	100	1.30	220
3.30	M	50	7.96	95	1.40	210
3.90	M	50	7.96	65	1.60	200
4.70	M	50	7.96	56	1.70	190
5.60	M	50	7.96	48	1.90	180
6.80	M	50	7.96	37	2.00	175
8.20	M	50	7.96	25	2.20	165
10.0	K	50	7.96	21	2.50	160
12.0	K	50	2.52	19	2.50	150
15.0	K	50	2.52	17	2.80	145
18.0	K	50	2.52	13	3.10	140
22.0	K	50	2.52	9.6	3.40	130
27.0	K	50	2.52	7.2	3.80	125
33.0	K	50	2.52	6.8	4.10	120
39.0	K	50	2.52	6.5	4.50	115
47.0	K	50	2.52	6.3	4.90	110
56.0	K	50	2.52	6.2	5.30	105
68.0	K	50	2.52	5.7	5.80	100
82.0	K	50	2.52	5.3	6.30	95
100.0	K	50	2.52	4.8	7.00	90
120.0	K	50	0.796	3.8	13.0	90
150.0	K	50	0.796	3.5	15.0	85
180.0	K	50	0.796	3.3	16.0	80
220.0	K	50	0.796	3.0	17.0	75
270.0	K	50	0.796	2.8	19.0	65
330.0	K	50	0.796	2.6	20.0	60
390.0	K	50	0.796	2.4	22.0	55
470.0	K	50	0.796	2.25	24.0	55
560.0	K	50	0.796	2.10	26.0	50
680.0	K	50	0.796	1.95	28.0	45
820.0	K	50	0.796	1.85	30.0	40

※Test meter: L&Q HP4284A; Srf HM2770;
 ※For special specifications please contact with us.

Data Sheet

■ LGA SERIES LGA0410 TYPE CHARACTERISTICS

Inductance (uH)	Tolerance	Qmin	Test Fre L,Q(MHz)	Self-resonant fre.(MHz min)	DC resistance ohm(max)	Rated current mA(max)
0.22	M	45	25.2	300	0.10	1400
0.27	M	45	25.2	270	0.11	1320
0.33	M	45	25.2	250	0.12	1280
0.39	M	45	25.2	230	0.13	1200
0.47	M	45	25.2	220	0.14	1150
0.56	M	45	25.2	200	0.15	1100
0.68	M	45	25.2	190	0.16	1030
0.82	M	45	25.2	170	0.17	980
1.00	M	45	25.2	157	0.19	920
1.20	M	50	7.96	144	0.21	880
1.50	M	50	7.96	131	0.23	830
1.80	M	55	7.96	121	0.25	790
2.20	M	55	7.96	110	0.28	750
2.70	M	60	7.96	100	0.30	720
3.30	M	65	7.96	94	0.34	670
3.90	M	65	7.96	55	0.37	640
4.70	M	70	7.96	50	0.39	620
5.60	M	70	7.96	48	0.43	590
6.80	M	75	7.96	37	0.48	550
8.20	M	80	7.96	25	0.52	530
10.0	K	65	7.96	21	0.58	500
12.0	K	50	2.52	19	0.63	480
15.0	K	50	2.52	17	0.72	460
18.0	K	50	2.52	13	0.77	430
22.0	K	50	2.52	9.6	0.84	410
27.0	K	55	2.52	7.2	0.94	390
33.0	K	55	2.52	6.8	1.03	370
39.0	K	50	2.52	6.5	1.12	350
47.0	K	45	2.52	6.3	1.22	340
56.0	K	40	2.52	6.2	1.34	320
68.0	K	40	2.52	5.7	1.47	305
82.0	K	35	2.52	5.3	1.62	290
100.0	K	30	2.52	4.8	1.80	275
120.0	K	55	0.796	3.8	3.70	185
150.0	K	45	0.796	3.5	4.20	175
180.0	K	50	0.796	3.3	4.60	165
220.0	K	55	0.796	3.0	5.10	155
220.0	K	55	0.796	3.0	5.10	155
270.0	K	65	0.796	2.8	5.80	145
330.0	K	65	0.796	2.6	6.40	137
390.0	K	65	0.796	2.4	7.00	133
470.0	K	60	0.796	2.25	7.70	126
560.0	K	60	0.796	2.10	8.50	120
680.0	K	55	0.796	1.95	9.40	113
820.0	K	55	0.796	1.85	10.5	105
1000.0	K	55	0.796	1.40	14.0	100

※ Test meter: L&Q HP4284A; Srf HM2770;

※ For special specifications please contact with us.

Data Sheet

■ LGA SERIES LGA0510 TYPE CHARACTERISTICS

Inductance (uH)	Tolerance	Qmin	Test Fre L,Q(MHz)	Self-resonant fre.(MHz min)	DC resistance ohm(max)	Rated current mA(max)
470.0	K	60	0.796	1.90	7.70	126
560.0	K	50	0.796	1.80	8.50	120
680.0	K	55	0.796	1.50	9.00	113
820.0	K	45	0.796	1.20	10.5	105
1000.0	K	45	0.796	1.00	14.0	100
1200.0	K	40	0.252	0.95	16.9	95
1500.0	K	40	0.252	0.90	21.6	90
1800.0	K	40	0.252	0.85	24.0	85
2200.0	K	40	0.252	0.80	34.7	80
2700.0	K	40	0.252	0.75	40.0	75
3300.0	K	40	0.252	0.70	59.5	62
3900.0	K	40	0.252	0.65	66.0	59
4700.0	K	40	0.252	0.60	74.5	55
5600.0	K	30	0.252	0.50	80.0	40
6800.0	K	30	0.252	0.45	85.0	35
8200.0	K	30	0.252	0.40	95.0	30
10000.0	K	20	0.252	0.35	105.0	25

※ Test meter: L&Q HP4284A; Srf HM2770;

※ For special specifications please contact with us.

■ LGA SERIES LGA0512 TYPE CHARACTERISTICS

Inductance (uH)	Tolerance	Qmin	Test Fre L,Q(MHz)	Self-resonant fre.(MHz min)	DC resistance ohm(max)	Rated current mA(max)
1000.0	K	60	0.01	1.00	10.50	200
1500.0	K	75	0.01	1.00	12.50	150
1800.0	K	55	0.01	1.00	15.50	140

※ This type of inductor used in "OSRAM" the company's low-power electronic ballasts, The core structure and material differences in the general inductance.

