



# THROUGH-HOLE AXIAL CONFORMAL COATED INDUCTORS

## LGA 0512 SERIES

### FEATURES:

- Ferrite Core
- Wire-wound construction
- Heat resistant epoxy resin
- High reliability, Ideal for automatic insertion
- Small size, Low Cost

### OPTIONS:

- Packaging: Tape & Reel is Standard (Qty: 1000 pcs)
- Bulk packaging available for smaller quantities
- Tolerance: 10% is standard, tighter tolerances available.

### COMMON APPLICATIONS:

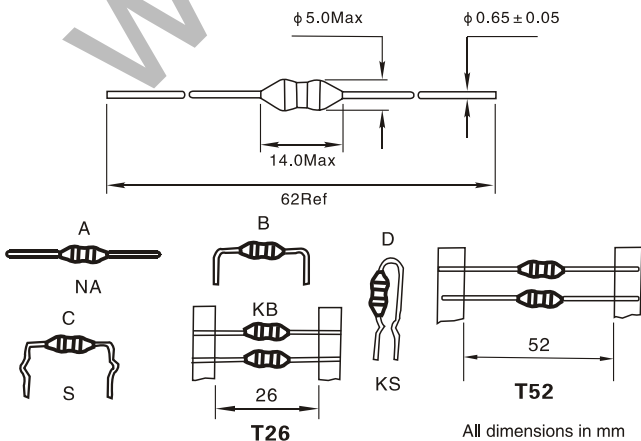
- VCRs, PDP, LCD, TV set
- Automotive Systems
- Computer Peripheral Equipment
- GPS, DC/DC convertor, XDSL Modem
- Electronic Games
- Mobile Communications Equipment
- General Electronic Applications

## STANDARD SPECIFICATIONS

Part Number	L (μH)	L Test Freq (MHz)	Q (Min)	Q Test Freq (MHz)	SRF (MHz)	DCR (Ω Max)	IDC (mA Max)	Part Number	L (μH)	L Test Freq (MHz)	Q (Min)	Q Test Freq (MHz)	SRF (MHz)	DCR (Ω Max)	IDC (mA Max)
LGA0512-1R0K	1.0	7.96	10	7.96	300	0.022	3800	LGA0512-181K	180	0.796	15	0.796	4.0	1.10	400
LGA0512-1R2K	1.2	7.96	10	7.96	260	0.024	3700	LGA0512-221K	220	0.796	15	0.796	3.8	1.25	390
LGA0512-1R5K	1.5	7.96	10	7.96	250	0.026	3600	LGA0512-271K	270	0.796	15	0.796	3.5	1.85	330
LGA0512-1R8K	1.8	7.96	10	7.96	240	0.029	3100	LGA0512-331K	330	0.796	15	0.796	3.0	2.10	310
LGA0512-2R2K	2.2	7.96	10	7.96	220	0.031	2900	LGA0512-391K	390	0.796	15	0.796	2.8	2.28	300
LGA0512-2R7K	2.7	7.96	10	7.96	195	0.034	2700	LGA0512-471K	470	0.796	15	0.796	2.5	3.22	280
LGA0512-3R3K	3.3	7.96	10	7.96	155	0.038	2600	LGA0512-561K	560	0.796	15	0.796	2.2	3.85	270
LGA0512-3R9K	3.9	7.96	10	7.96	115	0.040	2500	LGA0512-681K	680	0.796	15	0.796	2.1	4.00	240
LGA0512-4R7K	4.7	7.96	10	7.96	85	0.044	2400	LGA0512-821K	820	0.796	15	0.796	2.0	5.00	230
LGA0512-5R6K	5.6	7.96	10	7.96	55	0.048	2100	LGA0512-102K	1000	0.796	15	0.796	1.8	5.80	190
LGA0512-6R8K	6.8	7.96	10	7.96	50	0.051	2000	LGA0512-122K	1200	0.796	15	0.796	1.6	7.10	180
LGA0512-8R2K	8.2	7.96	10	7.96	38	0.056	1950	LGA0512-152K	1500	0.796	15	0.796	1.5	7.8	170
LGA0512-100K	10	7.96	10	7.96	24	0.062	1900	LGA0512-182K	1800	0.796	15	0.796	1.3	11.0	150
LGA0512-120K	12	2.52	10	2.52	18	0.076	1800	LGA0512-222K	2200	0.796	35	0.796	1.2	14.0	120
LGA0512-150K	15	2.52	10	2.52	16	0.088	1700	LGA0512-272K	2700	0.796	35	0.796	1.1	18.0	100
LGA0512-180K	18	2.52	10	2.52	15	0.11	1600	LGA0512-332K	3300	0.796	35	0.796	1.0	22.0	80
LGA0512-220K	22	2.52	10	2.52	14	0.13	1550	LGA0512-392K	3900	0.252	40	0.252	0.9	26.0	60
LGA0512-270K	27	2.52	10	2.52	13	0.14	1300	LGA0512-472K	4700	0.252	50	0.252	0.7	32.0	50
LGA0512-330K	33	2.52	10	2.52	11	0.20	1200	LGA0512-562K	5600	0.252	70	0.252	0.6	34.0	40
LGA0512-390K	39	2.52	10	2.52	10	0.22	1000	LGA0512-682K	6800	0.252	70	0.252	0.5	45.0	34
LGA0512-430K	43	2.52	10	2.52	9.5	0.28	950	LGA0512-822K	8200	0.252	50	0.252	0.4	60.0	30
LGA0512-470K	47	2.52	10	2.52	9.5	0.28	950	LGA0512-103K	10000	0.0796	40	0.0796	0.4	70.0	28
LGA0512-560K	56	2.52	10	2.52	8.0	0.30	900	LGA0512-123K	12000	0.0796	40	0.0796	0.3	82.0	24
LGA0512-680K	68	2.52	10	2.52	7.5	0.34	800	LGA0512-153K	15000	0.0796	40	0.0796	0.3	89.0	22
LGA0512-820K	82	2.52	10	2.52	7.0	0.385	750	LGA0512-183K	18000	0.0796	40	0.0796	0.3	141.0	15
LGA0512-101K	100	2.52	10	2.52	6.5	0.48	700	LGA0512-223K	22000	0.0796	40	0.0796	0.2	170.0	12
LGA0512-121K	120	0.796	15	0.796	5.0	0.595	600	LGA0512-333K	33000	0.0796	40	0.0796	0.2	250.0	8
LGA0512-151K	150	0.796	15	0.796	4.5	0.90	500								

Note: 1. K = ± 10%, M = ± 20%

## PHYSICAL CHARACTERISTICS



## Electronical Schematic

### DIMENSIONS in mm



## TECHNICAL INFORMATION

- Inductance Testing: HP4284A, HP4285A or equivalent
  - RDC: QuadTech 1880 Milliohm meter
  - Q- HP4342A
  - SRF-HP4191A or HP4194A
  - Rated Current L value drop 10% typ. at  $I_{DC}$  against its initial value
  - Temperature rise 40°C Max Reference ambient temperature
  - Solderability: 75% of the lead wire shall be covered
  - Soldering Methods: Wave, Reflow
  - Operating Temperature: -25°C to +85°C
  - Storage Temperature: -55°C to +125°C
  - Terminal bending strength: 24.5N Min
  - Moisture resistance:  $\Delta L/L \leq \pm 10\%$   $\Delta Q/Q \leq \pm 25\%$
- Note: All specifications subject to change without notice.