

THROUGH-HOLE RADIAL SHIELDED POWER INDUCTOR

LGS 1014-1159 SERIES

FEATURES:

- Magnetically Shielded Construction
- Heat Resistant Molded Resin
- Excellent Mechanical Strength
- Excellent Solderability
- High Reliability
- Low DCR Large Current

OPTIONS:

- Packaging: Tape & Reel is standard (Qty: 2000pcs)
Bulk packaging available for smaller quantities
- Tolerance: 10% and 5% is standard, tighter tolerances available

COMMON APPLICATIONS:

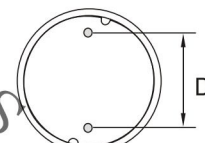
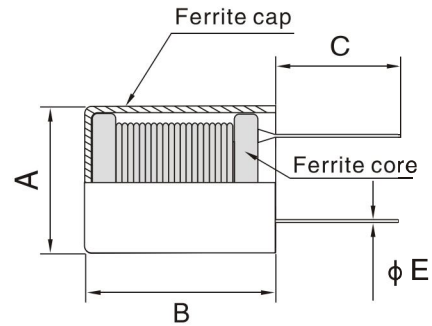
- VCRs, AC/DC, DC/DC Converter
- Video Cameras
- Communication System
- Automotive Systems
- Liquid Crystal Televisions
- Power Supplier
- Network Systems
- Computer Peripheral Equipment

ELECTRICAL CHARACTERISTICS:

| Part Number | L mH | Test Freq KHz | Q Min | DCR (Ω) Max | IDC Max mA |
|--------------|---------|---------------------|----------|----------------------------|------------------|
| LGS1014-122K | 1.2 | 1 | 50 | 1.2 | 200 |
| LGS1014-152K | 1.5 | 1 | 50 | 1.5 | 200 |
| LGS1014-182K | 1.8 | 1 | 50 | 1.6 | 200 |
| LGS1014-222K | 2.2 | 1 | 50 | 1.8 | 200 |
| LGS1014-272K | 2.7 | 1 | 40 | 1.9 | 200 |
| LGS1014-332K | 3.3 | 1 | 40 | 2.3 | 200 |
| LGS1014-392K | 3.9 | 1 | 40 | 2.5 | 200 |
| LGS1014-472K | 4.7 | 1 | 40 | 3.7 | 140 |
| LGS1014-502K | 5.0 | 1 | 40 | 3.8 | 140 |
| LGS1014-562K | 5.6 | 1 | 40 | 4.0 | 140 |
| LGS1014-682K | 6.8 | 1 | 40 | 4.2 | 140 |
| LGS1014-822K | 8.2 | 1 | 40 | 5.3 | 140 |
| LGS1014-103K | 10 | 1 | 100 | 7.3 | 100 |
| LGS1014-123K | 12 | 1 | 100 | 8.3 | 100 |
| LGS1014-153K | 15 | 1 | 100 | 11.0 | 90 |
| LGS1014-183K | 18 | 1 | 100 | 13.6 | 75 |
| LGS1014-223K | 22 | 1 | 100 | 15.4 | 75 |
| LGS1014-273K | 27 | 1 | 100 | 17.9 | 75 |
| LGS1014-333K | 33 | 1 | 100 | 23.3 | 60 |
| LGS1014-393K | 39 | 1 | 100 | 25.9 | 60 |
| LGS1014-473K | 47 | 1 | 80 | 30.4 | 60 |
| LGS1014-503K | 50 | 1 | 80 | 37.8 | 50 |
| LGS1014-563K | 56 | 1 | 80 | 39.1 | 50 |
| LGS1014-683K | 68 | 1 | 50 | 40 | 50 |
| LGS1014-823K | 82 | 1 | 50 | 47 | 40 |
| LGS1014-104K | 100 | 1 | 120 | 50 | 40 |
| LGS1014-124K | 120 | 1 | 100 | 91 | 30 |
| LGS1014-154K | 150 | 1 | 90 | 140 | 20 |
| LGS1014-184K | 180 | 1 | 90 | 164 | 20 |
| LGS1014-224K | 220 | 1 | 90 | 182 | 20 |
| LGS1014-274K | 270 | 1 | 90 | 200 | 20 |
| LGS1014-334K | 330 | 1 | 80 | 275 | 15 |
| LGS1014-394K | 390 | 1 | 80 | 300 | 15 |
| LGS1014-474K | 470 | 1 | 80 | 345 | 15 |
| LGS1014-564K | 560 | 1 | 60 | 520 | 8.4 |
| LGS1014-684K | 680 | 1 | 60 | 590 | 8.4 |
| LGS1014-824K | 820 | 1 | 50 | 675 | 8.4 |
| LGS1014-105K | 1000 | 1 | 50 | 770 | 8.4 |
| LGS1014-125K | 1200 | 1 | 50 | 845 | 8.4 |

Note: 1. K= $\pm 10\%$, M= $\pm 20\%$, N= $\pm 30\%$

PHYSICAL CHARACTERISTICS:



Dimension: mm

| Part Number | A | B | C | D | E |
|-------------|---------|---------|--------|---------------|-----|
| LGS1009 | 11.0Max | 9.5Max | 5.0Min | 5.0 ± 0.5 | 0.7 |
| LGS1014 | 11.0Max | 14.0Max | 5.0Min | 5.0 ± 0.5 | 0.7 |
| LGS1216 | 12.5Max | 16.0Max | 5.0Min | 5.0 ± 0.5 | 0.8 |
| LGS1519 | 16.0Max | 19.5Max | 5.0Min | 7.5 ± 0.5 | 0.8 |

TECHNICAL INFORMATION:

- IDC Max: Determined when superimposed
- Testing: (Equivalent acceptable) Inductance: HP4342A, HP4284A
RDC: QuadTech 1880 Milliohmmer
Q- HP4342A - SRF-HP4191A
DC current is decreased 10% against its initial value
- Operating temperature: -40°C to +105°C
- Storage Temperature: -40°C to +105°C
- Solder methods: Vapor Phase, Infrared Reflow
- Resistance to soldering heat: 260°C for 10 seconds
- Solvent resistance: Conforms to MIL-STD-202E
- Marking: Inductance & Tolerance

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