

THROUGH-HOLE AXIAL CONFORMAL COATED INDUCTORS

FALGA 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:

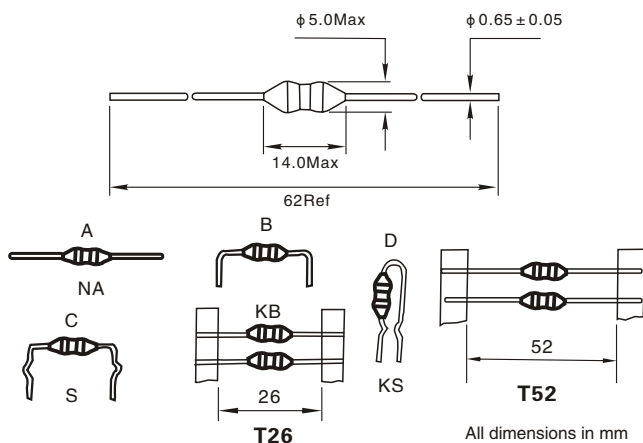
- VCRs, PDP, LCD, TV set
- Automotive Systems
- Computer Peripheral Equipment
- GPS, DC/DC convertor, XDSL Modem
- Electronic Games
- Mobile Communications Equipment
- General Electronic Applications

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) |
|----------------|--------|-------------------|---------|-------------------|-----------|-------------|--------------|----------------|--------|-------------------|---------|-------------------|-----------|-------------|--------------|
| FALGA0512-1R0K | 1.0 | 7.96 | 10 | 7.96 | 300 | 0.022 | 3800 | FALGA0512-181K | 180 | 0.796 | 15 | 0.796 | 4.0 | 1.10 | 400 |
| FALGA0512-1R2K | 1.2 | 7.96 | 10 | 7.96 | 260 | 0.024 | 3700 | FALGA0512-221K | 220 | 0.796 | 15 | 0.796 | 3.8 | 1.25 | 390 |
| FALGA0512-1R5K | 1.5 | 7.96 | 10 | 7.96 | 250 | 0.026 | 3600 | FALGA0512-271K | 270 | 0.796 | 15 | 0.796 | 3.5 | 1.85 | 330 |
| FALGA0512-1R8K | 1.8 | 7.96 | 10 | 7.96 | 240 | 0.029 | 3100 | FALGA0512-331K | 330 | 0.796 | 15 | 0.796 | 3.0 | 2.10 | 310 |
| FALGA0512-2R2K | 2.2 | 7.96 | 10 | 7.96 | 220 | 0.031 | 2900 | FALGA0512-391K | 390 | 0.796 | 15 | 0.796 | 2.8 | 2.28 | 300 |
| FALGA0512-2R7K | 2.7 | 7.96 | 10 | 7.96 | 195 | 0.034 | 2700 | FALGA0512-471K | 470 | 0.796 | 15 | 0.796 | 2.5 | 3.22 | 280 |
| FALGA0512-3R3K | 3.3 | 7.96 | 10 | 7.96 | 155 | 0.038 | 2600 | FALGA0512-561K | 560 | 0.796 | 15 | 0.796 | 2.2 | 3.85 | 270 |
| FALGA0512-3R9K | 3.9 | 7.96 | 10 | 7.96 | 115 | 0.040 | 2500 | FALGA0512-681K | 680 | 0.796 | 15 | 0.796 | 2.1 | 4.00 | 240 |
| FALGA0512-4R7K | 4.7 | 7.96 | 10 | 7.96 | 85 | 0.044 | 2400 | FALGA0512-821K | 820 | 0.796 | 15 | 0.796 | 2.0 | 5.00 | 230 |
| FALGA0512-5R6K | 5.6 | 7.96 | 10 | 7.96 | 55 | 0.048 | 2100 | FALGA0512-102K | 1000 | 0.796 | 15 | 0.796 | 1.8 | 5.80 | 190 |
| FALGA0512-6R8K | 6.8 | 7.96 | 10 | 7.96 | 50 | 0.051 | 2000 | FALGA0512-122K | 1200 | 0.796 | 15 | 0.796 | 1.6 | 7.10 | 180 |
| FALGA0512-8R2K | 8.2 | 7.96 | 10 | 7.96 | 38 | 0.056 | 1950 | FALGA0512-152K | 1500 | 0.796 | 15 | 0.796 | 1.5 | 7.8 | 170 |
| FALGA0512-100K | 10 | 7.96 | 10 | 7.96 | 24 | 0.062 | 1900 | FALGA0512-182K | 1800 | 0.796 | 15 | 0.796 | 1.3 | 11.0 | 150 |
| FALGA0512-120K | 12 | 2.52 | 10 | 2.52 | 18 | 0.076 | 1800 | FALGA0512-222K | 2200 | 0.796 | 35 | 0.796 | 1.2 | 14.0 | 120 |
| FALGA0512-150K | 15 | 2.52 | 10 | 2.52 | 16 | 0.088 | 1700 | FALGA0512-272K | 2700 | 0.796 | 35 | 0.796 | 1.1 | 18.0 | 100 |
| FALGA0512-180K | 18 | 2.52 | 10 | 2.52 | 15 | 0.11 | 1600 | FALGA0512-332K | 3300 | 0.796 | 35 | 0.796 | 1.0 | 22.0 | 80 |
| FALGA0512-220K | 22 | 2.52 | 10 | 2.52 | 14 | 0.13 | 1550 | FALGA0512-392K | 3900 | 0.252 | 40 | 0.252 | 0.9 | 26.0 | 60 |
| FALGA0512-270K | 27 | 2.52 | 10 | 2.52 | 13 | 0.14 | 1300 | FALGA0512-472K | 4700 | 0.252 | 50 | 0.252 | 0.7 | 32.0 | 50 |
| FALGA0512-330K | 33 | 2.52 | 10 | 2.52 | 11 | 0.20 | 1200 | FALGA0512-562K | 5600 | 0.252 | 70 | 0.252 | 0.6 | 34.0 | 40 |
| FALGA0512-390K | 39 | 2.52 | 10 | 2.52 | 10 | 0.22 | 1000 | FALGA0512-682K | 6800 | 0.252 | 70 | 0.252 | 0.5 | 45.0 | 34 |
| FALGA0512-430K | 43 | 2.52 | 10 | 2.52 | 9.5 | 0.28 | 950 | FALGA0512-822K | 8200 | 0.252 | 50 | 0.252 | 0.4 | 60.0 | 30 |
| FALGA0512-470K | 47 | 2.52 | 10 | 2.52 | 9.5 | 0.28 | 950 | FALGA0512-103K | 10000 | 0.0796 | 40 | 0.0796 | 0.4 | 70.0 | 28 |
| FALGA0512-560K | 56 | 2.52 | 10 | 2.52 | 8.0 | 0.30 | 900 | FALGA0512-123K | 12000 | 0.0796 | 40 | 0.0796 | 0.3 | 82.0 | 24 |
| FALGA0512-680K | 68 | 2.52 | 10 | 2.52 | 7.5 | 0.34 | 800 | FALGA0512-153K | 15000 | 0.0796 | 40 | 0.0796 | 0.3 | 89.0 | 22 |
| FALGA0512-820K | 82 | 2.52 | 10 | 2.52 | 7.0 | 0.385 | 750 | FALGA0512-183K | 18000 | 0.0796 | 40 | 0.0796 | 0.3 | 141.0 | 15 |
| FALGA0512-101K | 100 | 0.796 | 15 | 0.796 | 6.5 | 0.48 | 700 | FALGA0512-223K | 22000 | 0.0796 | 40 | 0.0796 | 0.2 | 170.0 | 12 |
| FALGA0512-121K | 120 | 0.796 | 15 | 0.796 | 5.0 | 0.595 | 600 | FALGA0512-333K | 33000 | 0.0796 | 40 | 0.0796 | 0.2 | 250.0 | 8 |
| FALGA0512-151K | 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: ΔL/L ≤ ± 10% ΔQ/Q ≤ ± 25%
- Note: All specifications subject to change without notice.