

Mini Drum Core Inductor

AIUR-03 Series

 RoHS/RoHS II Compliant



12.0 x φ9.0 mm

FEATURES:

- Ferrite core with heat shrink tube
- High Reliability

APPLICATIONS:

- Electronic Appliance
- Automotive system

STANDARD SPECIFICATIONS:

PARAMETERS

| | |
|------------------------|------------------|
| Goldstone P/N: | AIUR-03 Series |
| Operating temperature: | -25°C to + 85°C |
| Storage temperature: | -25°C to + 125°C |

| Part Number | Inductance | Tolerance | Q (Min) | Test Frequency | DCR (Max) | Saturation Current (Max) | Temperature Rise Current (Max) | SRF (Min) | Inductance Code |
|-------------|------------|-----------|---------|----------------|-----------|--------------------------|--------------------------------|-----------|-----------------|
| Units | μH | % | | MHz | Ω | A | A | MHz | |
| Symbol | L | J, K, M | | | DCR | Isat | I _{DC} | | |
| AIUR-03-1R0 | 1.0 | M | 20 | 7.96 | 0.013 | 10.0 | 3.5 | 150 | 1R0M |
| AIUR-03-1R5 | 1.5 | M | 20 | 7.96 | 0.016 | 8.5 | 3.3 | 130 | 1R5M |
| AIUR-03-2R2 | 2.2 | M | 20 | 7.96 | 0.021 | 6.5 | 3.2 | 100 | 2R2M |
| AIUR-03-3R3 | 3.3 | M | 20 | 7.96 | 0.025 | 5.5 | 2.9 | 79 | 3R3M |
| AIUR-03-4R7 | 4.7 | M | 20 | 7.96 | 0.030 | 4.3 | 2.5 | 51 | 4R7M |
| AIUR-03-6R8 | 6.8 | M | 20 | 7.96 | 0.035 | 3.7 | 2.3 | 29 | 6R8M |
| AIUR-03-100 | 10 | J, K | 50 | 2.52 | 0.045 | 3.0 | 2.0 | 14 | 100J/100K |
| AIUR-03-120 | 12 | J, K | 50 | 2.52 | 0.050 | 2.7 | 1.9 | 13 | 120J/120K |
| AIUR-03-150 | 15 | J, K | 50 | 2.52 | 0.056 | 2.3 | 1.8 | 12 | 150J/150K |
| AIUR-03-180 | 18 | J, K | 40 | 2.52 | 0.061 | 2.2 | 1.6 | 11 | 180J/180K |
| AIUR-03-220 | 22 | J, K | 40 | 2.52 | 0.070 | 2.0 | 1.4 | 9.2 | 220J/220K |
| AIUR-03-270 | 27 | J, K | 40 | 2.52 | 0.080 | 1.7 | 1.3 | 8.5 | 270J/270K |
| AIUR-03-330 | 33 | J, K | 30 | 2.52 | 0.090 | 1.6 | 1.1 | 7.8 | 330J/330K |
| AIUR-03-390 | 39 | J, K | 30 | 2.52 | 0.10 | 1.5 | 1.1 | 6.9 | 390J/390K |
| AIUR-03-470 | 47 | J, K | 30 | 2.52 | 0.16 | 1.4 | 0.99 | 6.5 | 470J/470K |
| AIUR-03-560 | 56 | J, K | 30 | 2.52 | 0.18 | 1.3 | 0.90 | 5.4 | 560J/560K |
| AIUR-03-680 | 68 | J, K | 30 | 2.52 | 0.21 | 1.2 | 0.81 | 4.9 | 680J/680K |
| AIUR-03-820 | 82 | J, K | 30 | 2.52 | 0.23 | 1.1 | 0.76 | 4.1 | 820J/820K |
| AIUR-03-101 | 100 | J, K | 20 | 0.796 | 0.28 | 0.91 | 0.72 | 3.7 | 101J/101K |
| AIUR-03-121 | 120 | J, K | 20 | 0.796 | 0.32 | 0.84 | 0.67 | 3.4 | 121J/121K |
| AIUR-03-151 | 150 | J, K | 20 | 0.796 | 0.37 | 0.75 | 0.61 | 3.2 | 151J/151K |
| AIUR-03-181 | 180 | J, K | 20 | 0.796 | 0.58 | 0.69 | 0.54 | 2.8 | 181J/181K |
| AIUR-03-221 | 220 | J, K | 20 | 0.796 | 0.65 | 0.64 | 0.50 | 2.7 | 221J/221K |
| AIUR-03-331 | 330 | J, K | 20 | 0.796 | 0.85 | 0.54 | 0.39 | 2.3 | 331J/331K |
| AIUR-03-391 | 390 | J, K | 20 | 0.796 | 1.00 | 0.48 | 0.37 | 2.1 | 391J/391K |
| AIUR-03-471 | 470 | J, K | 20 | 0.796 | 1.10 | 0.46 | 0.32 | 1.9 | 471J/471K |
| AIUR-03-561 | 560 | J, K | 20 | 0.796 | 1.40 | 0.41 | 0.30 | 1.8 | 561J/561K |
| AIUR-03-681 | 680 | J, K | 20 | 0.796 | 1.60 | 0.38 | 0.27 | 1.6 | 681J/681K |
| AIUR-03-821 | 820 | J, K | 20 | 0.796 | 1.80 | 0.35 | 0.24 | 1.5 | 821J/821K |
| AIUR-03-102 | 1000 | J, K | 50 | 0.252 | 2.90 | 0.29 | 0.22 | 1.3 | 102J/102K |

Test Conditions and equipments

DCR: QuadTech Milliohmeter

Isat: 10% inductance drops from initial value

I_{DC}: The DC current at which the temperature rise is 40°C max

GOLDSTONE
MAGNETICS

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Mini Drum Core Inductor



12.0 x ϕ 9.0 mm

AIUR-03 Series

~~Pb~~ RoHS/RoHS II Compliant

OPTIONS & PART IDENTIFICATION: (Left blank if standard)

AIUR-03-

| Inductance Code |
|---|
| Please refer to the Electrical Spec Table |

| Tolerance |
|--------------|
| J: \pm 5% |
| K: \pm 10% |
| M: \pm 20% |

OUTLINE DRAWING:

