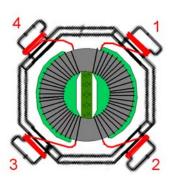


Banked Coil





Case, Bottom view



Materials

| Item | Description |
|------|---|
| [1] | Core: Powder Ring 6.60-2.67-2.54 P/N 77240 Kool Mu (A = 54 nH/turn) (Magnetics) |
| [2] | Bobbin (Case): YC-CS-01S (Y.C.F.B.) |
| [3] | Magnet Wire: 38 AWG (0.10 mm), Solderable Double Coated |
| [4] | Carton, thickness 0.8 mm |
| [5] | Varnish |
| | |

Primary Winding

| Parameter | Section 1 |
|--------------------|---------------|
| Number of Turns | 67 |
| Wire Size, mm | 0.10 (38 AWG) |
| Start Pin(s) | 1 |
| Termination Pin(s) | 2 |
| | |

Secondary Windings

| , , | |
|--------------------|---------------|
| Parameter | Section 2 |
| Number of Turns | 67 |
| Wire Size, mm | 0.10 (38 AWG) |
| Start Pin(s) | 4 |
| Termination Pin(s) | 3 |

Electrical Test Specifications

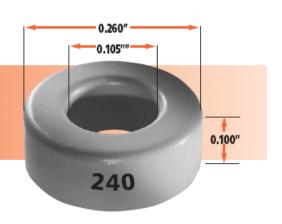
| Parameter | Condition | Spec |
|--|---|------------|
| Primary 1 – 2 Inductance, uH | Measured at 1 V pk-pk, typical switching frequency, between pin 1 to pin 2, with all other Windings open. | 240 +/- 30 |
| Secondary 4 – 3 Inductance, uH | Measured at 1 V pk-pk, typical switching frequency, between pin 4 to pin 3, with all other Windings open. | 240 +/- 30 |
| Difference between Inductance 1 - 2 and 4 - 3, uH | | < 5 uH |
| Total 1 – 2 + 3 – 4 Inductance, uH | Measured at 1 V pk-pk, typical switching frequency, between pin 1 to pin 4, with pins 2, 3 connect together | 70 +/- 10 |
| Electrical Strength, VAC | 50 Hz 1 minute, from pins 1 - 2 to pins 4 – 3 | 500 |

Core Informations:

6.60 mm O.D. 2.67 mm I.D. x 2.54 mm HT.

Core Dimensions (after finish)

| O.D. (max.) | 7.24 mm | 0.285 in |
|-------------|---------|----------|
| I.D. (min.) | 2.16 mm | 0.085 in |
| HT. (max.) | 3.18 mm | 0.125 in |



| Permeability (μ) | A. ± 8% | Part Number | | | Nominal DC Resistance | B/NI Gauss per |
|-------------------|------------------------------|-------------|-----------|---------|--------------------------|--------------------|
| reinicability (µ) | Kool Mµ A _L ± 12% | MPP | High Flux | Kool Mµ | Ohms/mH* | Amp. Turn* |
| 14 | 6 | 55243 | 58243 | - | 14.22 | 12.9 (<1500 gauss) |
| 26 | 11 | 55242 | 58242 | - | 7.76 | 24 (<1500 gauss) |
| 60 | 26 | 55241 | 58241 | 77241 | 3.28 | 55.4 (<1500 gauss) |
| 75 | 32 | - | - | 77245 | - | |
| 90 | 39 | - | - | 77244 | - | |
| 125 | 54 | 55240 | 58240 | 77240 | 1.58 | 116 (<1500 gauss) |
| 160 | 69 | 55238 | 58238 | - | 1.24 | 148 (<1500 gauss) |
| 200 | 86 | 55237 | - | - | 0.992 | 185 (<600 gauss) |
| 300 | 130 | 55235 | - | - | 0.656 | 277 (<300 gauss) |
| 550 | 242 | 55236 | - | | 0.353 | 508 (<50 gauss) |

| Physical Characteristics | | |
|--------------------------|------------------------|-------------------------|
| Window Area | 0.0412 cm ² | 8,100 c.mils |
| Cross Section | 0.0476 cm ² | 0.00738 in ² |
| Path Length | 1.363 cm | 0.537 in |
| Volume | 0.0649 cm ³ | 0.00396 in ³ |
| Weight- MPP | 0.58 gm | 0.0013 lb |
| Weight- High Flux | 0.55 gm | 0.0012 lb |
| Weight- Kool Mµ | 0.399 gm | 0.00088 lb |
| Area Product | 0.0020 cm ⁴ | 0.000047 in4 |
| | | |

| Winding Turn Length | | |
|---------------------|----------|-----------|
| WINDING FACTOR | LENGTH/ | TURN |
| 100% (Unity) | 1.327 cm | 0.0435 ft |
| 60% | 1.251 cm | 0.0410 ft |
| 40% | 1.176 cm | 0.0386 ft |
| 20% | 1.144 cm | 0.0375 ft |
| 0% | 1.132 cm | 0.0371 ft |

| Wound Coil | Dimension | S |
|--------------------|-----------|----------|
| Max. O.D. (u.w.f.) | 9.12 mm | 0.359 in |
| Max. HT. (u.w.f.) | 5.13 mm | 0.202 in |

| Surface Area | | |
|--------------------|-----------------------|----------------------|
| Unwound Core | 0.264 in ² | 1.70 cm ² |
| 40% Winding Factor | 0.357 in ² | 2.3 cm ² |

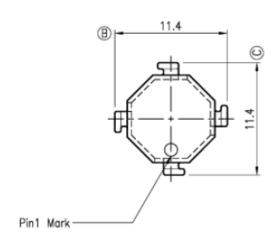
| • | ' | | 1 | |
|------------------|-------------------|------------------------------|--------------------------|-----------------------------------|
| AWG Wire Size | Turns (u.w.f.) | Rdc (Ohms, Ω) (u.w.f.) | Single Layer Turns | Single Layer Rdc. (Ohms, Ω) |
| 26 | 24 | 0.0425 | 12 | 0.0183 |
| 27 | 30 | 0.0671 | 14 | 0.0267 |
| 28 | 37 | 0.1046 | 16 | 0.0388 |
| 29 | 45 | 0.1609 | 18 | 0.0542 |
| 30 | 56 | 0.255 | 21 | 0.81 |
| 31 | 69 | 0.395 | 23 | 0.112 |
| 32 | 84 | 0.595 | 26 | 0.156 |
| 33 | 105 | 0.938 | 30 | 0.229 |
| 34 | 133 | 1.513 | 34 | 0.329 |
| 35 | 165 | 2.38 | 39 | 0.479 |
| 36 | 204 | 3.68 | 44 | 0.677 |
| 37 | 249 | 5.55 | 48 | 0.912 |
| 38 | 312 | 8.78 | 54 | 1.3 |
| 39 | 401 | 14.8 | 62 | 1.95 |
| 40 | 506 | 23.7 | 71 | 2.82 |
| 41 | 623 | 35.8 | 80 | 3.92 |
| 42 | 794 | 57.3 | 91 | 5.6 |
| 43 | 964 | 89.8 | 101 | 8.02 |
| 44 | 1110 | 125 | 110 | 10.6 |
| 45 | 1528 | 223 | 128 | 15.9 |

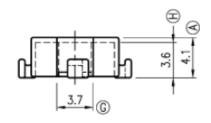


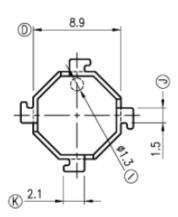
^{*} These values are only applicable for MPP Cores.



Part No. YC-CS-01S







| | Date | Revised | Record |
|---|------------|---------|--------|
| | 04. 07. 31 | A/1 | |
| | | | |
| ı | | | |

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| Model CASE-0 | 1 SMD Self Lead |
|------------------------------------|---|
| Bobbin Material: PHENOLIC UL-94V-0 | |
| Pin Material : | |
| PIN PITCH: | 0 <l≦4 ±0.1<br="">Tolerance : 4<l≤16±0.2 16<l≤60±0.3< td=""></l≤60±0.3<></l≤16±0.2 </l≦4> |
| Unit : mm | 16 <l≤60±0.3< td=""></l≤60±0.3<> |
| File No: YC-F-584 | Date : 2004.07.31 |