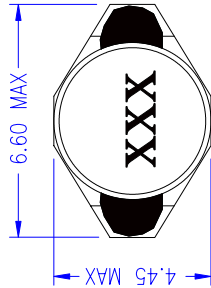
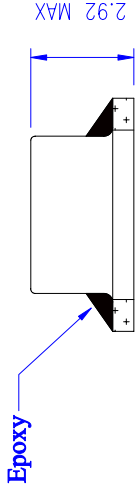


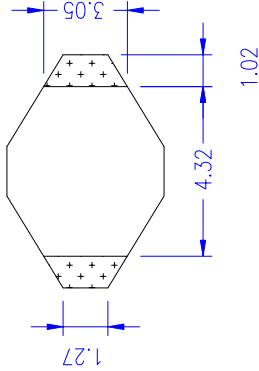
TOP VIEW



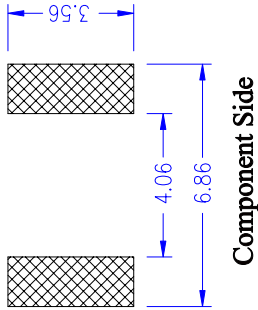
FRONT VIEW



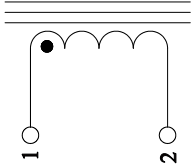
BOTTOM VIEW



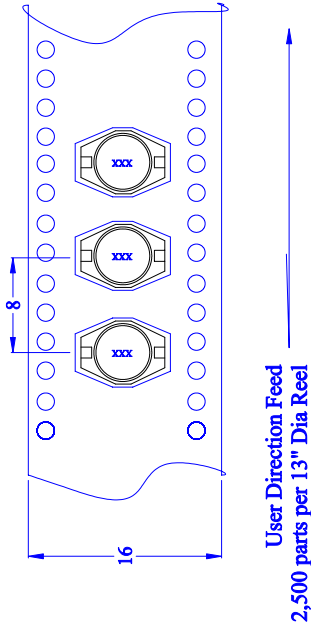
RECOMMENDED PCB LAYOUT



SCHEMATIC



TAPE AND REEL ORIENTATION



This Document Is Subject To Change Without Notice.

Notes:

- 1) All Dimensions are in millimeters unless otherwise specified.
- 2) Stamp as Shown above--  
Line 1- xxx (xxx=inductance value per family chart)
- 3) Tolerances are +/-0.381mm unless otherwise specified.

Cooper Electronic Technologies  
3601 Quantum Boulevard, Boynton Beach, FL 33426

Unipac 0.4SC (UP0.4SC) Inductor Line  
SMD, 2.92mm max ht, Shielded Drum  
core/header

Size

A

Drawing Number:

UP0.4SC-R Inductor Line

Revision Level:

B

Sheet 3 of 4

CUSTOMER INFORMATION

| Part Number | Rated Inductance (µH) | OCL nominal (µH) @20°C | <a href="#">Irms (max) (a)</a> | Q min       | DCR (Ω) max @ 20°C. | SRF typ (MHz) |
|-------------|-----------------------|------------------------|--------------------------------|-------------|---------------------|---------------|
| UP0.4SC-1R0 | 1.0                   | 1.0+/-20%              | 3.0                            | 30 @ 200kHz | .040                | 250           |
| UP0.4SC-1R5 | 1.5                   | 1.5 +/-20%             | 2.8                            | 30 @ 200kHz | .045                | 125           |
| UP0.4SC-2R2 | 2.2                   | 2.2+/-20%              | 1.8                            | 40 @ 200kHz | .050                | 120           |
| UP0.4SC-3R3 | 3.3                   | 3.3+/-20%              | 1.6                            | 40 @ 200kHz | .055                | 120           |
| UP0.4SC-4R7 | 4.7                   | 4.7+/-20%              | 1.4                            | 40 @ 200kHz | .060                | 105           |
| UP0.4SC-6R8 | 6.8                   | 6.8+/-20%              | 1.2                            | 40 @ 200kHz | .065                | 50            |
| UP0.4SC-100 | 10.0                  | 10.0+/-20%             | 1.0                            | 40 @ 200kHz | .075                | 38            |
| UP0.4SC-150 | 15.0                  | 15.0+/-20%             | 0.80                           | 40 @ 200kHz | .090                | 33            |
| UP0.4SC-220 | 22.0                  | 22.0+/-20%             | 0.70                           | 40 @ 100kHz | .110                | 25            |
| UP0.4SC-330 | 33.0                  | 33.0+/-20%             | 0.60                           | 40 @ 100kHz | .190                | 20            |
| UP0.4SC-470 | 47.0                  | 47.0+/-20%             | 0.50                           | 40 @ 100kHz | .230                | 20            |
| UP0.4SC-680 | 68.0                  | 68.0+/-20%             | 0.40                           | 40 @ 100kHz | .290                | 15            |
| UP0.4SC-101 | 100                   | 100+/-20%              | 0.30                           | 40 @ 100kHz | .480                | 10            |
| UP0.4SC-151 | 150                   | 150+/-20%              | 0.26                           | 40 @ 100kHz | .590                | 9             |
| UP0.4SC-221 | 220                   | 220+/-20%              | 0.22                           | 40 @ 100kHz | .770                | 6             |
| UP0.4SC-331 | 330                   | 330+/-20%              | 0.20                           | 40 @ 100kHz | 1.4                 | 5             |
| UP0.4SC-471 | 470                   | 470+/-20%              | 0.19                           | 40 @ 100kHz | 1.8                 | 4             |
| UP0.4SC-681 | 680                   | 680+/-20%              | 0.18                           | 40 @ 100kHz | 2.2                 | 3             |
| UP0.4SC-102 | 1000                  | 1000+/-20%             | 0.15                           | 40 @ 100kHz | 3.4                 | 2             |
| UP0.4SC-152 | 1500                  | 1500+/-20%             | 0.12                           | 50 @ 100kHz | 4.2                 | 2             |
| UP0.4SC-222 | 2200                  | 2200+/-20%             | 0.10                           | 50 @ 100kHz | 8.5                 | 2             |
| UP0.4SC-332 | 3300                  | 3300+/-20%             | 0.08                           | 50 @ 100kHz | 11.0                | 1             |
| UP0.4SC-472 | 4700                  | 4700+/-20%             | 0.06                           | 50 @ 100kHz | 13.9                | 1             |
| UP0.4SC-682 | 6800                  | 6800+/-20%             | 0.04                           | 50 @ 100kHz | 25.0                | 1             |
| UP0.4SC-103 | 10000                 | 10000+/-20%            | 0.02                           | 50 @ 100kHz | 32.8                | .08           |

**Electrical Requirement Notes:** 1) Test Frequency: 100KHz, 0.1V      2) DCR @ 20°C

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|                                                                                                                                                                                                                                                                              |                        |                                                                                                                                                                              |                         |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------|
| <b>General Specifications:</b><br>a) Temp. Rise: 30°C typ at Irms<br>b) Operating Temp: -40°C -- +125°C<br>c) Storage Temp.: -25°C~+125°C<br>d) Resistance to Solder Heat: 260°C for 10 secs.<br>Parts available in Tape and Reel. 13" diameter reel : 2,500 parts per reel. |                        | <b>Cooper Electronic Technologies</b><br>3601 Quantum Blvd, Boynton Beach, FL 33426<br>Unipac 0.4SC (UP0.4SC) Inductor Line<br>SMD, 2.92mm max ht, Shielded Drum core/header |                         |
| Option Code (Suffix)                                                                                                                                                                                                                                                         | Description            | SIZE                                                                                                                                                                         | Drawing Number:         |
| -R                                                                                                                                                                                                                                                                           | ROHS compliant Version | A                                                                                                                                                                            | Revision Level:         |
|                                                                                                                                                                                                                                                                              |                        |                                                                                                                                                                              | B                       |
|                                                                                                                                                                                                                                                                              |                        |                                                                                                                                                                              | UP0.4SC-R Inductor Line |
|                                                                                                                                                                                                                                                                              |                        |                                                                                                                                                                              | Sheet 2 of 4            |