



-  Magnetically Shielded
-  Miniature in size and high energy storage
-  Ideal for high current requirements of notebook, video recorders and other DC-DC conversion applications
-  Custom inductance value or tolerance is available
-  RoHS compliant versions are available



**ELECTRICAL SPECIFICATION @ 25°C**

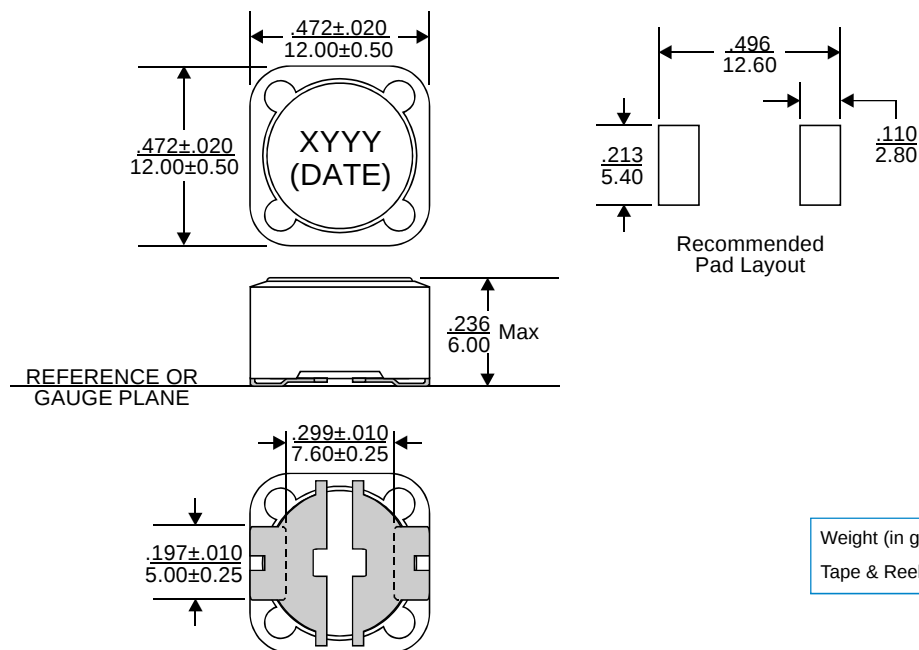
| Part Number     | RoHS Part Number | Inductance (uH) | Inductance Tolerance | Test Frequency <sup>1</sup> (Hz) | DCR (mΩ Max) | Rated DC Current <sup>2</sup> (A) | Marking (XXXX) |
|-----------------|------------------|-----------------|----------------------|----------------------------------|--------------|-----------------------------------|----------------|
| SISCDRH125N-1R3 | SISCDRH125N-1R3R | 1.3             | +30/-20%             | 1M                               | 12           | 8.00                              | N1R3           |
| SISCDRH125N-2R1 | SISCDRH125N-2R1R | 2.1             | +30/-20%             | 1M                               | 14           | 7.00                              | N2R1           |
| SISCDRH125N-3R1 | SISCDRH125N-3R1R | 3.1             | +30/-20%             | 1M                               | 17           | 6.00                              | N3R1           |
| SISCDRH125N-4R4 | SISCDRH125N-4R4R | 4.4             | +30/-20%             | 1M                               | 20           | 5.00                              | N4R4           |
| SISCDRH125N-5R8 | SISCDRH125N-5R8R | 5.8             | +30/-20%             | 1M                               | 21           | 4.40                              | N5R8           |
| SISCDRH125N-7R5 | SISCDRH125N-7R5R | 7.5             | +30/-20%             | 1M                               | 24           | 4.20                              | N7R5           |
| SISCDRH125N-7R6 | SISCDRH125N-7R6R | 7.6             | +30/-20%             | 1M                               | 26.5         | 4.50                              | N7R6           |
| SISCDRH125M-100 | SISCDRH125M-100R | 10              | ±20%                 | 1k                               | 25           | 4.00                              | M100           |
| SISCDRH125M-120 | SISCDRH125M-120R | 12              | ±20%                 | 1k                               | 27           | 3.50                              | M120           |
| SISCDRH125M-150 | SISCDRH125M-150R | 15              | ±20%                 | 1k                               | 30           | 3.30                              | M150           |
| SISCDRH125M-180 | SISCDRH125M-180R | 18              | ±20%                 | 1k                               | 34           | 3.00                              | M180           |
| SISCDRH125M-220 | SISCDRH125M-220R | 22              | ±20%                 | 1k                               | 36           | 2.80                              | M220           |
| SISCDRH125M-270 | SISCDRH125M-270R | 27              | ±20%                 | 1k                               | 51           | 2.30                              | M270           |
| SISCDRH125M-330 | SISCDRH125M-330R | 33              | ±20%                 | 1k                               | 57           | 2.10                              | M330           |
| SISCDRH125M-390 | SISCDRH125M-390R | 39              | ±20%                 | 1k                               | 68           | 2.00                              | M390           |
| SISCDRH125M-470 | SISCDRH125M-470R | 47              | ±20%                 | 1k                               | 75           | 1.80                              | M470           |
| SISCDRH125M-560 | SISCDRH125M-560R | 56              | ±20%                 | 1k                               | 110          | 1.70                              | M560           |
| SISCDRH125M-680 | SISCDRH125M-680R | 68              | ±20%                 | 1k                               | 120          | 1.50                              | M680           |
| SISCDRH125M-820 | SISCDRH125M-820R | 82              | ±20%                 | 1k                               | 140          | 1.40                              | M820           |
| SISCDRH125M-101 | SISCDRH125M-101R | 100             | ±20%                 | 1k                               | 160          | 1.30                              | M101           |
| SISCDRH125M-121 | SISCDRH125M-121R | 120             | ±20%                 | 1k                               | 170          | 1.10                              | M121           |
| SISCDRH125M-151 | SISCDRH125M-151R | 150             | ±20%                 | 1k                               | 230          | 1.00                              | M151           |
| SISCDRH125M-181 | SISCDRH125M-181R | 180             | ±20%                 | 1k                               | 290          | 0.90                              | M181           |
| SISCDRH125M-221 | SISCDRH125M-221R | 220             | ±20%                 | 1k                               | 400          | 0.80                              | M221           |
| SISCDRH125M-271 | SISCDRH125M-271R | 270             | ±20%                 | 1k                               | 460          | 0.75                              | M271           |
| SISCDRH125M-331 | SISCDRH125M-331R | 330             | ±20%                 | 1k                               | 510          | 0.68                              | M331           |
| SISCDRH125M-391 | SISCDRH125M-391R | 390             | ±20%                 | 1k                               | 690          | 0.65                              | M391           |
| SISCDRH125M-471 | SISCDRH125M-471R | 470             | ±20%                 | 1k                               | 770          | 0.58                              | M471           |
| SISCDRH125M-561 | SISCDRH125M-561R | 560             | ±20%                 | 1k                               | 860          | 0.54                              | M561           |
| SISCDRH125M-681 | SISCDRH125M-681R | 680             | ±20%                 | 1k                               | 1200         | 0.48                              | M681           |
| SISCDRH125M-821 | SISCDRH125M-821R | 820             | ±20%                 | 1k                               | 1340         | 0.43                              | M821           |
| SISCDRH125M-102 | SISCDRH125M-102R | 1000            | ±20%                 | 1k                               | 1530         | 0.40                              | M102           |



**Notes:**

1. Test frequency is specified as the frequency for measuring the inductance.
2. Rated D.C. current indicates the value of the current when the inductance is 25% lower than its initial value and the temperature rising  $\Delta T=40^{\circ}\text{C}$  at D.C. superposition.
3. Operating temperature range:  $-30^{\circ}\text{C}$  to  $+80^{\circ}\text{C}$ .
4. The part temperature (ambient temperature + temperature rise) should not exceed the upper limit of the operating temperature under worst case operating conditions. Circuit design, component placement, PWB trace size and thickness, airflow and other cooling provisions all affect the part temperature. Part temperature should be verified in the end application..
5. Contact EEMPL for RoHS compliant version availability.

**MECHANICAL DIMENSIONS**

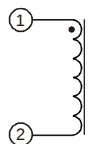


|                  |              |
|------------------|--------------|
| Weight (in gram) | : 3.5 typ.   |
| Tape & Reel      | : 600 / reel |

**Notes:**

6. All dimensions are specified in  $\frac{\text{inches}}{\text{mm}}$  with higher precedence in mm.
7. Unless otherwise specified, all tolerances are  $\pm \frac{0.10}{0.25}$ .
8. For available RoHS part number, the part will be marked with "YYYYR", instead of "YYYY".

**SCHEMATICS**



**FOR MORE INFORMATION, PLEASE CONTACT**

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