

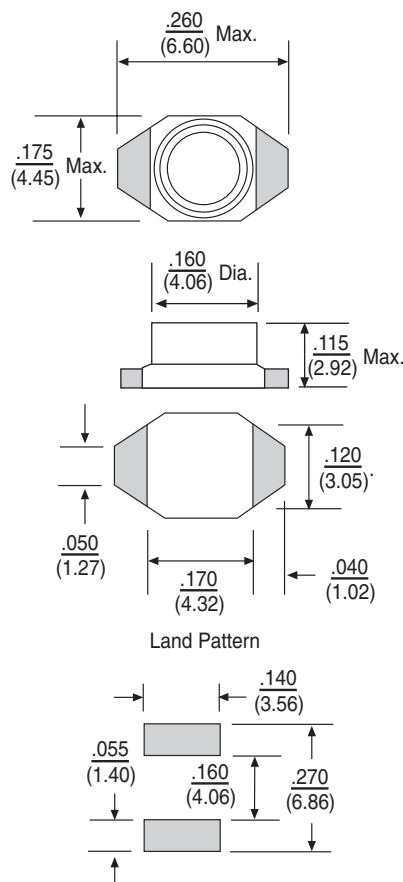


# RL-1608-S

## SHIELDED SMD POWER INDUCTORS



The RL-1608-S Series offers shielded surface mount power inductors in our smallest package with a footprint of .26" x .175". With a low cost, high energy storage and low resistance they are ideal for communication, computer and converter applications. Specifically designed with a flat top for reliable pick and place operations. Available in 25 values with inductance ratings from 1.0 $\mu$ H to 10mH and currents up to 3 Amps.



**TAPE AND REEL PACKAGING**  
 Pieces per Reel 2500  
 Plastic Reel Size 13"

| PART NUMBER     | Inductance <sup>1</sup><br>( $\mu$ H $\pm$ 20%) | SRF Typ.<br>(MHz) | Q Min           | DCR max.<br>(Ohms) | DC SAT <sup>2</sup><br>(Amps) | Rated Current <sup>3</sup><br>(Amps) |
|-----------------|-------------------------------------------------|-------------------|-----------------|--------------------|-------------------------------|--------------------------------------|
| RL-1608-S-1.0   | 1.0                                             | 250               | 30 <sup>4</sup> | .040               | 1.40                          | 3.0                                  |
| RL-1608-S-1.5   | 1.5                                             | 125               | 30 <sup>4</sup> | .045               | 0.93                          | 2.8                                  |
| RL-1608-S-2.2   | 2.2                                             | 120               | 40 <sup>4</sup> | .050               | 0.92                          | 1.8                                  |
| RL-1608-S-3.3   | 3.3                                             | 120               | 40 <sup>4</sup> | .055               | 0.75                          | 1.6                                  |
| RL-1608-S-4.7   | 4.7                                             | 105               | 40 <sup>4</sup> | .060               | 0.58                          | 1.4                                  |
| RL-1608-S-6.8   | 6.8                                             | 90                | 40 <sup>4</sup> | .065               | 0.58                          | 1.2                                  |
| RL-1608-S-10    | 10                                              | 38                | 40 <sup>4</sup> | .075               | 0.37                          | 1.0                                  |
| RL-1608-S-15    | 15                                              | 33                | 40              | .090               | 0.31                          | .80                                  |
| RL-1608-S-22    | 22                                              | 25                | 40              | .11                | 0.30                          | .70                                  |
| RL-1608-S-33    | 33                                              | 20                | 40              | .19                | 0.30                          | .60                                  |
| RL-1608-S-47    | 47                                              | 20                | 40              | .30                | 0.24                          | .50                                  |
| RL-1608-S-68    | 68                                              | 15                | 40              | .37                | 0.17                          | .40                                  |
| RL-1608-S-100   | 100                                             | 10                | 40              | .48                | 0.13                          | .30                                  |
| RL-1608-S-150   | 150                                             | 9                 | 40              | .59                | 0.10                          | .26                                  |
| RL-1608-S-220   | 220                                             | 6                 | 40              | .77                | 0.10                          | .22                                  |
| RL-1608-S-330   | 330                                             | 5                 | 40              | 1.4                | 0.07                          | .20                                  |
| RL-1608-S-470   | 470                                             | 4                 | 40              | 1.8                | 0.06                          | .19                                  |
| RL-1608-S-680   | 680                                             | 3                 | 40              | 2.2                | 0.055                         | .18                                  |
| RL-1608-S-1000  | 1000                                            | 2                 | 40              | 3.4                | 0.045                         | .15                                  |
| RL-1608-S-1500  | 1500                                            | 2                 | 50              | 4.2                | 0.035                         | .12                                  |
| RL-1608-S-2200  | 2200                                            | 2                 | 50              | 8.5                | 0.028                         | .10                                  |
| RL-1608-S-3300  | 3300                                            | 1                 | 50              | 11.0               | 0.024                         | .08                                  |
| RL-1608-S-4700  | 4700                                            | 1                 | 50              | 13.9               | 0.021                         | .06                                  |
| RL-1608-S-6800  | 6800                                            | 1                 | 50              | 25.0               | 0.019                         | .04                                  |
| RL-1608-S-10000 | 10000                                           | 0.8               | 50              | 32.8               | 0.017                         | .02                                  |

1. Tested at 100 kHz, 0.1 Vrms.

2. Inductance drop =30% typ.

3.  $\Delta T = 40^{\circ}\text{C}$  rise max.

4. Tested at 200 KHz

Operating temperature range  $-40^{\circ}\text{C}$  to  $+85^{\circ}\text{C}$ .

Storage temperature range  $-40^{\circ}\text{C}$  to  $+105^{\circ}\text{C}$ .

Resistance to solder heat  $260^{\circ}\text{C}$ , 10 secs.

ALL DIMENSIONS IN INCHES (mm)



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