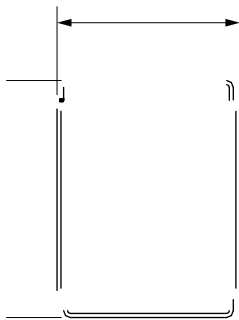


## NRSM Series

### Wire Wound SMD Power Inductor

### Size 201610

Dimensions: [mm]



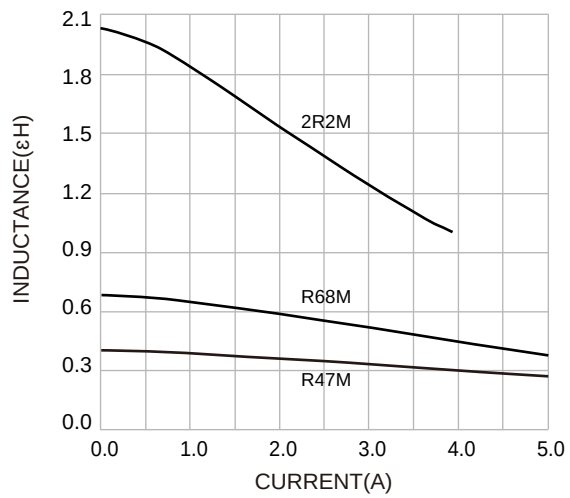
Land Pattern: [mm]

Electrical Properties:

| Part No          | Inductance<br>@ 1MHz/1V<br>( $\mu$ H) | Tolerance  | Temperature<br>Rise Current<br>Typ.<br>(A) | Temperature<br>Rise Current<br>Max.<br>(A) | Satura on<br>Current<br>Typ.<br>(A) | Satura on<br>Current<br>Max.<br>(A) | DC<br>Resistance<br>Typ.<br>( $\Omega$ ) | DC<br>Resistance<br>Max.<br>( $\Omega$ ) |
|------------------|---------------------------------------|------------|--------------------------------------------|--------------------------------------------|-------------------------------------|-------------------------------------|------------------------------------------|------------------------------------------|
| NRSM201610S-R24M | 0.24                                  | $\pm 20\%$ | 3.45                                       | 3.00                                       | 5.50                                | 4.50                                | 0.033                                    | 0.040                                    |
| NRSM201610S-R33M | 0.33                                  | $\pm 20\%$ | 3.10                                       | 2.70                                       | 5.20                                | 4.40                                | 0.041                                    | 0.049                                    |
| NRSM201610S-R47M | 0.47                                  | $\pm 20\%$ | 3.10                                       | 2.70                                       | 4.70                                | 4.06                                | 0.041                                    | 0.049                                    |
| NRSM201610S-R56M | 0.56                                  | $\pm 20\%$ | 2.80                                       | 2.60                                       | 4.50                                | 3.80                                | 0.043                                    | 0.053                                    |
| NRSM201610S-R68M | 0.68                                  | $\pm 20\%$ | 2.80                                       | 2.50                                       | 4.00                                | 3.50                                | 0.057                                    | 0.065                                    |
| NRSM201610S-1R0M | 1.00                                  | $\pm 20\%$ | 2.30                                       | 2.00                                       | 3.80                                | 3.30                                | 0.078                                    | 0.095                                    |
| NRSM201610S-1R5M | 1.50                                  | $\pm 20\%$ | 2.00                                       | 1.70                                       | 2.30                                | 1.95                                | 0.110                                    | 0.130                                    |
| NRSM201610S-2R2M | 2.20                                  | $\pm 20\%$ | 1.60                                       | 1.40                                       | 2.15                                | 1.90                                | 0.160                                    | 0.180                                    |
| NRSM201610S-3R3M | 3.30                                  | $\pm 20\%$ | 1.30                                       | 1.10                                       | 1.60                                | 1.40                                | 0.245                                    | 0.307                                    |
| NRSM201610S-4R7M | 4.70                                  | $\pm 20\%$ | 1.00                                       | 0.90                                       | 1.40                                | 1.10                                | 0.370                                    | 0.425                                    |
| NRSM201610S-6R8M | 6.80                                  | $\pm 20\%$ | 0.82                                       | 0.70                                       | 1.10                                | 0.95                                | 0.500                                    | 0.620                                    |
| NRSM201610S-8R2M | 8.20                                  | $\pm 20\%$ | 0.76                                       | 0.66                                       | 1.00                                | 0.86                                | 0.670                                    | 0.870                                    |
| NRSM201610S-100M | 10.0                                  | $\pm 20\%$ | 0.70                                       | 0.60                                       | 0.95                                | 0.80                                | 0.700                                    | 0.875                                    |
| NRSM201610S-150M | 15.0                                  | $\pm 20\%$ | 0.42                                       | 0.36                                       | 0.75                                | 0.69                                | 1.300                                    | 1.700                                    |

## Typical Electrical Characteristics:

Inductance VS. Current Characteristics:



Temperature Rise VS. Current Characteristics:

