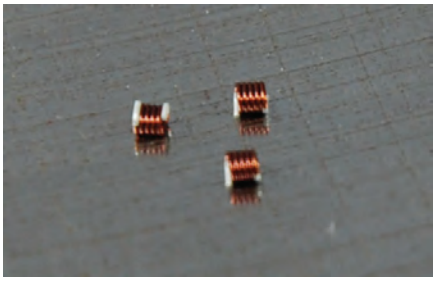
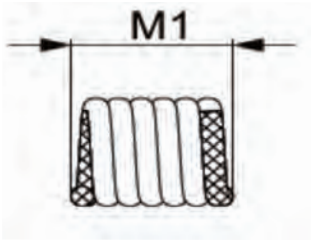
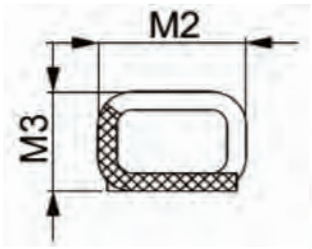
# SMD Square Air Core Inductors SQAC0807

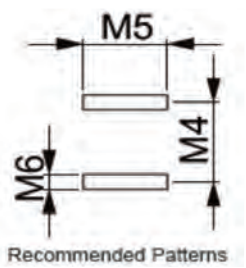


## Features

- Excellent for high Q applications
- High SRF's for high frequency applications
- High current capability
- Flat top cap for pick and place assembly
- RoHS & Halogen Free
- MSL Level 1




Recommended Patterns

## Electrical

**Impedance range:** 6.9nH to 22nH
**Tolerance:** available in 5% & 10%
**Test Frequency:** 400Mhz
**Operating Temp:** -40ºC to +125ºC

## Test Equipment

**(L/Q):** HP4291B with HP16193
**(SRF):** HP8753E or HP8720D

## Physical

**Packaging:** TBA
**Marking:** None

**Dimensions:** (Unit: mm)

| Allied Part Number | M1 | M2 | M3 | M4 | M5 | M6 |
|---|---|---|---|---|---|---|
| SQAC0807-6N9( )-RC | 1.295±0.102 | 1.829±0.254 | 1.524±0.254 | 1.02 | 2.6 | 0.51 |
| SQAC0807-10N( )-RC | 1.626±0.152 | 1.829±0.254 | 1.524±0.254 | 1.32 | 2.6 | 0.51 |
| SQAC0807-11N( )-RC | 1.549±0.152 | 1.829±0.254 | 1.524±0.254 | 1.24 | 2.6 | 0.51 |
| SQAC0807-14N( )-RC | 1.930±0.152 | 1.829±0.254 | 1.524±0.254 | 1.63 | 2.6 | 0.51 |
| SQAC0807-17N( )-RC | 2.286±0.152 | 1.829±0.254 | 1.524±0.254 | 1.96 | 2.6 | 0.51 |
| SQAC0807-22N( )-RC | 2.591±0.152 | 1.829±0.254 | 1.524±0.254 | 2.29 | 2.6 | 0.51 |

| Allied Part Number | Turns | Inductance (nh) | Q Min. | Test Freq. (MHz) | SRF Min. (GHz) | DCR Max. (mΩ) | Rated Current (A) (Max.) |
|---|---|---|---|---|---|---|---|
| SQAC0807-6N9( )-RC | 3 | 6.9 | 100 | 400 | 4.6 | 6.0 | 2.7 |
| SQAC0807-10N( )-RC | 4 | 10.2 | 100 | 400 | 4.0 | 7.0 | 2.7 |
| SQAC0807-11N( )-RC | 4 | 11.2 | 90 | 400 | 3.6 | 6.3 | 2.7 |
| SQAC0807-14N( )-RC | 5 | 13.7 | 100 | 400 | 4.3 | 8.0 | 2.7 |
| SQAC0807-17N( )-RC | 6 | 17.0 | 100 | 400 | 4.0 | 9.0 | 2.7 |
| SQAC0807-22N( )-RC | 7 | 22.0 | 100 | 400 | 3.5 | 10.0 | 2.7 |

**To complete part number insert tolerance designator: J=±5%, K=±10%**

All specifications subject to change without notice.