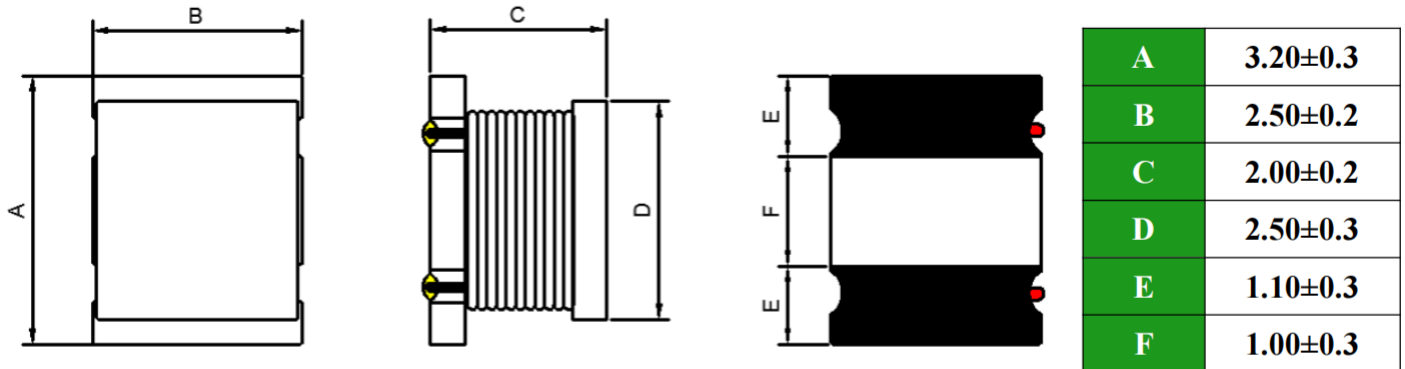
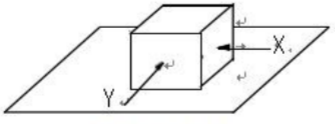
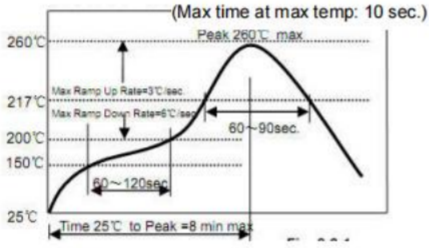
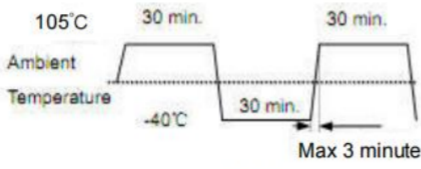


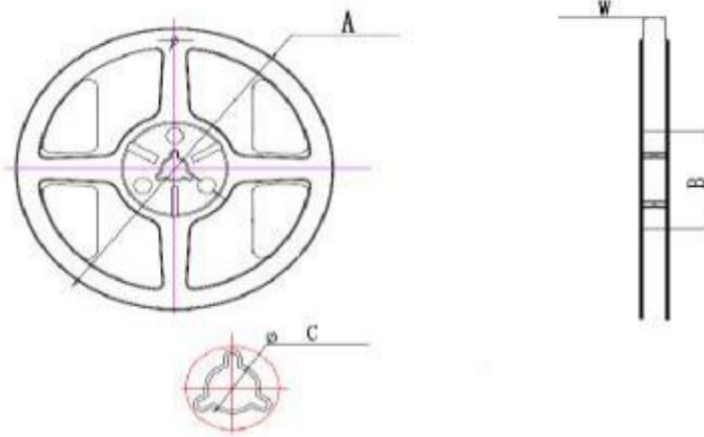
SMD Power Inductors
◆ Dimensions(Unit:mm):

◆ Electrical Characteristics:

| Part No | Inductance (μH) | Tolerance ($\pm\%$) | Test Condition | RDC (Ω) | Idc (A) | S.R.F (MHz) |
|------------------|---------------------------------|--------------------------|-------------------|---------------------|------------|----------------|
| | | | | Max | MAX | Min |
| SCN322520NR27MST | 1.0 | 20 | 1MHz/1.0V | 0.045 | 1.25 | 250 |
| SCN322520N1R0MST | 2.2 | 20 | 1MHz/1.0V | 0.078 | 1.00 | 100 |
| SCN322520N2R2MST | 3.3 | 20 | 1MHz/1.0V | 0.126 | 0.79 | 64 |
| SCN322520N4R7MST | 4.7 | 20 | 1MHz/1.0V | 0.195 | 0.65 | 43 |
| SCN322520N100KST | 6.8 | 10 | 1MHz/1.0V | 0.390 | 0.45 | 26 |
| SCN322520N220KST | 10.0 | 10 | 1MHz/1.0V | 0.923 | 0.25 | 17 |
| SCN322520N101KST | 22.0 | 10 | 1MHz/1.0V | 4.55 | 0.10 | 10 |
| SCN322520N221KST | 33.0 | 10 | 1MHz/1.0V | 10.92 | 0.07 | 6.8 |

※: This indicates the value of current when the inductance is 10% lower than its initial value at D.C superposition and D.C current when temperature rise $\Delta T=20^{\circ}\text{C}$. ($T_a=25^{\circ}\text{C}$)

◆ Reliability Test

| Items | Requirements | Test Method/Condition |
|--|---|--|
| Terminal Strength | No removal or split of the termination or other defects shall occur  Fig.7.1-1 | 1.Solder the inductor to the testing jig (glass epoxy board shown in Fig.7.1-1) using eutectic solder. Then apply a force in the direction of the arrow. 2.10N force 3.Keep time: 5±2s |
| High Temperature | 1.No visible mechanical damage 2.Inductance change: Within ±10%. | 1.Storage Temperature :125±5°C 2.Duration : 96 ±4 Hours 3.Recovery : then measured at room ambient temperature after placing 24 hours. |
| Low Temperature | 1.No visible mechanical damage 2.Inductance change: Within ±10% | 1.Temperature and time: -40±5°C 2.Duration: 96 ±4 hours 3.Recovery : then measured at room ambient temperature after placing 24 hours |
| Vibration test | 1.No visible mechanical damage 2.Inductance change: Within ±10% | 1.Frequency range:10Hz~55Hz~10Hz 2.Amplitude:1.5mm p-p 3.Direction:X,Y,Z 4.Time:1 minute/cycle,2hours per axis |
| High Temperature Storage Tested | 1.No visible mechanical damage. 2.Inductance change: Within ±10% | 1.Storage Temperature :60±2°C 2.Relative Humidity :90-95% RH 3.Duration : 96 ±4 Hours 4.Recovery : then measured at room ambient temperature after placing 24 hours |
| Resistance to Soldering Heat | 1.No visible mechanical damage 2.Inductance change: Within ±10%  Fig.7.6-1 | 1.Re-flowing Profile: Please refer to Fig.7.6-1 2.Test board thickness: 1.0mm 3.Test board material: glass epoxy resin 4.The chip shall be stabilized at normal condition for 1~2 hours before measuring |
| Thermal Shock | 1.No visible mechanical damage. 2.Inductance change: Within ±10%  Fig.7.7-1 | 1.Temperature and time: -40±3°C for 30±3 min→ 105°C for 30±3min, please refer to Fig.7.7-1 2.Transforming interval: Max,3 minute 3.Tested cycle: 100 cycles 4.The chip shall be stabilized at normal condition for 1~2 hours before measuring |

◆ Packaging


| Part NO | A | B | C | W | Quantity |
|-------------------|---------|---------|----------|----------|-----------|
| SCN322520N Series | 180±0.5 | 100±0.5 | 13.5±0.5 | 12.5±0.5 | 2000Pcs/R |

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