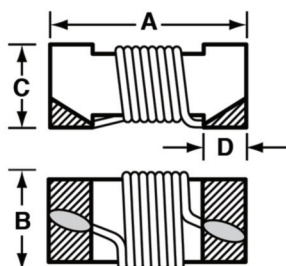


SERIES S0603**Hi-Rel Surface Mount
Chip Inductors**

Actual Size (Max.)

Physical Parameters

	Inches	Millimeters
D	0.011 - 0.010	0.279 - 0.381
A	0.058 - 0.062	1.473 - 1.575
B	0.028 - 0.035	0.711 - 0.889
C	0.040 Max.	1.016 Max.

Operating Temperature Range -55°C to +125°C**Current Rating at 90°C Ambient** +35°C Rise**Insulation Resistance at 100 Vdc** 1000 Mohm Min.**Dielectric Withstanding Voltage (DWV)** 200 Vrms.**Core Material / Termination**Al₂O₃ / Sintered MoMn / Electroplated Ni /
Electroplated Au Finish (RoHS)Termination Options: 1. Au Finish (RoHS)
2. SnPb Solder
3. Pb Free Solder (RoHS)**Electrical Characteristics** Measured at +25°C

INDUCTANCE (nH) ± 5%
Q MINIMUM
INDUCTANCE & Q TEST
FREQUENCY (MHz)
SRF MINIMUM (MHz)
DC RESISTANCE
MAXIMUM (OHMS)
CURRENT RATING
MAXIMUM (mA)

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-3N3J	3.3	18	250	6000	0.100	700
-5N6J	5.6	18	250	5800	0.190	700
-8N2J	8.2	24	250	4800	0.150	700
-10NJ	10.0	28	250	4800	0.160	700
-15NJ	15.0	32	250	4000	0.200	700
-22NJ	22.0	35	250	3000	0.220	700
-33NJ	33.0	37	250	2300	0.250	600
-39NJ	39.0	37	250	2200	0.280	600
-47NJ	47.0	35	200	2000	0.310	600
-56NJ	56.0	35	200	1900	0.340	600
-68NJ	68.0	34	200	1700	0.370	600
-82NJ	82.0	34	150	1700	0.570	400
-101NJ	100.0	31	150	1400	0.610	400
-151NJ	150.0	29	100	1300	0.980	280
-221NJ	220.0	22	100	1200	1.700	250
-271NJ	270.0	22	100	900	2.200	200

Inductance Tolerance Options H (± 3%), G (± 2%), F (± 1%)

S0603 Test Plan Advantages

- Provides multiple screening alternatives
- Eliminates necessity for SCD's
- Provides quicker delivery
- Reduces overall costs

How To Order:

S0603 **101N** **J** **1** **C**
(A) (B) (C) (D) (E)

(A) Inductor Series
(B) Inductance Value
(C) Inductance Tolerance
(D) Termination Finish
(E) Test Plan Screening

S0603 Test Plan Options

Ordering Option Code		S	C	B	D	E
Screening Level		MIL-STD-981 Class "S"	MIL-STD-981 Class "S" Modified	MIL-STD-981 Class "B"	MIL-STD-981 Class "B" Modified	High Temp
Test	Method					
Thermal Shock	MIL-PRF-83446	25 Cycles 1/ (-55°C to +125°C)	25 Cycles (-55°C to +125°C)	25 Cycles 1/ (-55°C to +125°C)	25 Cycles (-55°C to +125°C)	5 Cycles (-55°C to +175°C)
No-Load Burn-In	MIL-STD-981	125°C (96 hours)	125°C (96 hours)	125°C (96 hours)	125°C (96 hours)	200°C (96 hours)
Dielectric Withstanding Voltage	MIL-PRF-83446	200 Vrms		200 Vrms		
Insulation Resistance	MIL-PRF-83446	1000 Mohms		1000 Mohms		
Electrical Characteristics: L, Q, DCR, SRF	MIL-PRF-83446	•	•	•	•	•
Radiographic Inspection	MIL-STD-981	•				
Visual & Dimensional Examination (external)	MIL-PRF-83446	•	•	•	•	
* Electrical Characteristics (initial): L, Q, DCR, SRF	MIL-PRF-83446	•	•			
* Low Temperature Operation	MIL-PRF-83446	•	•			
* Temperature Rise	MIL-PRF-83446	•				•
* Overload	MIL-PRF-83446	•	•			•
* Moisture Resistance	MIL-PRF-83446	•				
* Electrical Characteristics: L and Q	MIL-PRF-83446	•	•			
* High Temperature Exposure	MIL-PRF-83446	•	•			
* Electrical Characteristics (final)	MIL-PRF-83446	•	•			
* Bond Strength	MIL-PRF-83446	•	•			
* Visual & Mechanical Examination (external)	MIL-PRF-83446	•	•			
* Visual & Mechanical Examination (internal)	MIL-STD-981	•				
* Solderability	MIL-PRF-83446	•	•			
* Electrical Characteristics (initial): L, Q, DCR, SRF	MIL-PRF-83446	•	•			
* Life	MIL-PRF-83446	2000 Hours (90°C Ambient)	500 Hours (90°C Ambient)			500 Hours (175°C Ambient)
* Dielectric Withstanding Voltage	MIL-PRF-83446	80 Vrms	80 Vrms			
* Insulation Resistance	MIL-PRF-83446	1000 Mohms	1000 Mohms			
* Electrical Characteristics (final): L, Q, DCR, SRF	MIL-PRF-83446	•	•			
* Visual & Mechanical Examination (external)	MIL-PRF-83446	•	•			
Mechanical Shock/Vibration	MIL-STD-883					•

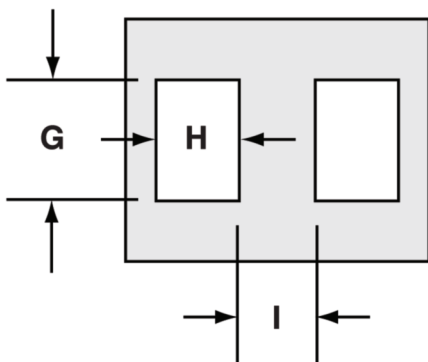
*Destructive Test Units Required

1/ Continually monitor continuity during the entire final cycle to verify no intermittent conditions.

SERIES S0603

Hi-Rel Surface Mount
Chip Inductors

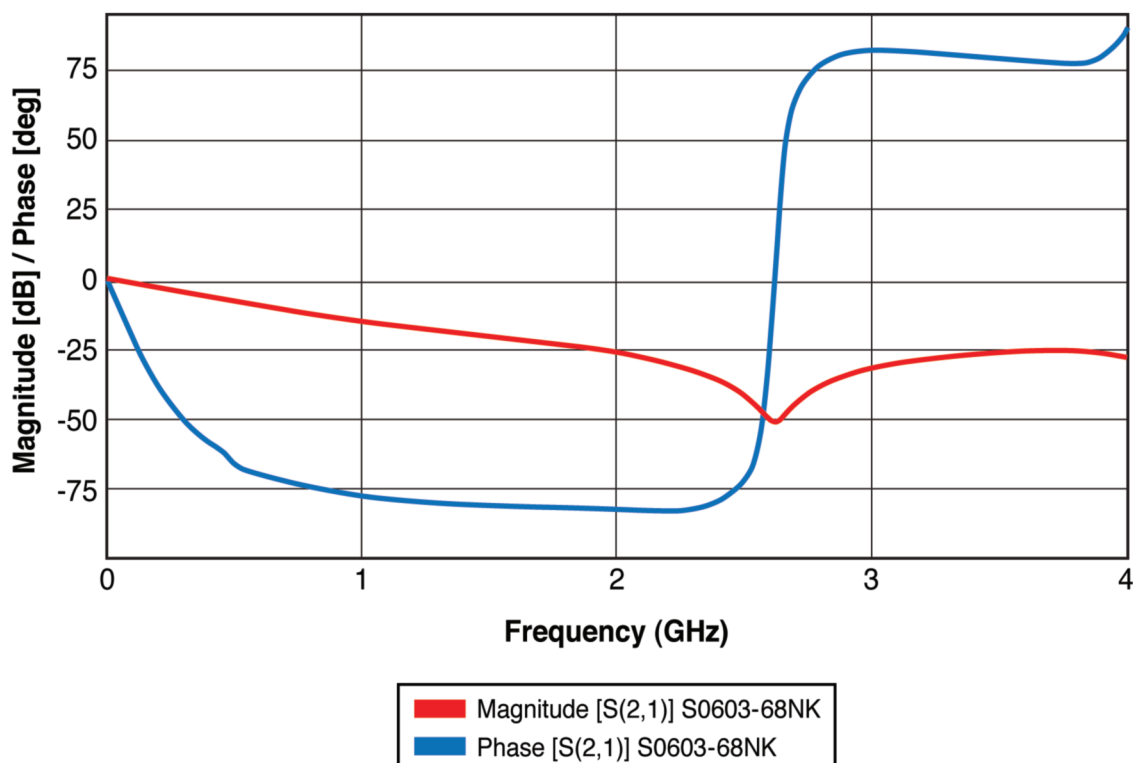
Suggested Land Patterns



Delevan Series	G		H		I	
	Inches	mm	Inches	mm	Inches	mm
S0603 Series	0.040	1.016	0.025	0.635	0.025	0.635



S-Parameters (Typical)



All product specifications and data contained herein are subject to change without notice to improve reliability, function, performance, design or otherwise.