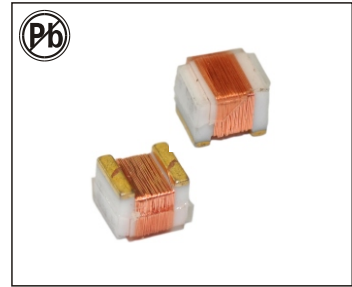


# SURFACE-MOUNT WIRE WOUND CERAMIC CHIP INDUCTORS AISC0603 SERIES



## FEATURES:

- Multilayer monolithic construction yields high reliability
- High self-resonant frequency
- Excellent solderability and heat resistance for either flow or reflow soldering

## COMMON APPLICATIONS:

- High frequency circuits of telecommunication.
- Bluetooth
- Mobile phones such as GSM, CDMA, PDC, etc.
- Other High frequency circuits in general

## ELECTRICAL CHARACTERISTICS:

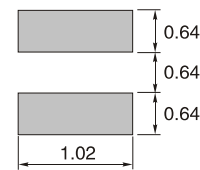
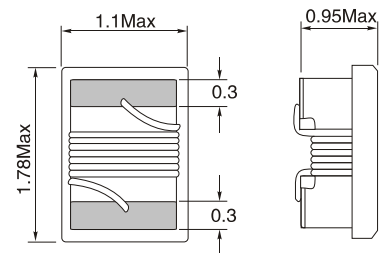
Part Number	L(nH)	Tolerance (%)	Q Min	SRF (GHz) Min	DCR (Ω) Max	IDC (mA) Max
AISC0603-1N6□	1.6@250MHZ	10	18@250MHZ	12.5	0.040	700
AISC0603-1N8□	1.8@250MHZ	10	16@250MHZ	12.5	0.045	700
AISC0603-2N2□	2.2@250MHZ	10	12@250MHZ	10	0.090	700
AISC0603-3N3□	3.3@250MHZ	10	20@250MHZ	5.9	0.075	700
AISC0603-3N6□	3.6@250MHZ	10,5	22@250MHZ	5.9	0.075	700
AISC0603-3N9□	3.9@250MHZ	10,5	22@250MHZ	6.9	0.080	700
AISC0603-4N3□	4.3@250MHZ	10,5	22@250MHZ	5.9	0.075	700
AISC0603-4N7□	4.7@250MHZ	10,5	20@250MHZ	5.8	0.116	700
AISC0603-5N1□	5.1@250MHZ	10,5	20@250MHZ	5.7	0.120	700
AISC0603-5N6□	5.6@250MHZ	10	18@250MHZ	5.7	0.200	700
AISC0603-6N8□	6.8@250MHZ	10,5	27@250MHZ	5.8	0.110	700
AISC0603-7N5□	7.5@250MHZ	10,5	28@250MHZ	4.8	0.110	700
AISC0603-8N2□	8.2@250MHZ	10	28@250MHZ	4.7	0.120	700
AISC0603-9N5□	9.5@250MHZ	10	26@250MHZ	5.4	0.150	700
AISC0603-10N□	10@250MHZ	10	31@250MHZ	4.8	0.130	700
AISC0603-12N□	12@250MHZ	10	35@250MHZ	4	0.130	700
AISC0603-15N□	15@250MHZ	10	30@250MHZ	4	0.150	700
AISC0603-18N□	18@250MHZ	10	35@250MHZ	3.1	0.170	700
AISC0603-22N□	22@250MHZ	10	38@250MHZ	3	0.190	700
AISC0603-27N□	27@250MHZ	10	36@250MHZ	2.8	0.220	600
AISC0603-33N□	33@250MHZ	10	36@250MHZ	2.3	0.220	600
AISC0603-36N□	36@250MHZ	10	36@250MHZ	2.08	0.250	600
AISC0603-39N□	39@250MHZ	10	40@250MHZ	2.2	0.250	600
AISC0603-43N□	43@250MHZ	10	36@250MHZ	2	0.280	600
AISC0603-47N□	47@200MHZ	10	36@200MHZ	2	0.280	600
AISC0603-56N□	56@200MHZ	10	38@200MHZ	1.9	0.280	600
AISC0603-68N□	68@200MHZ	10	36@200MHZ	1.7	0.340	600
AISC0603-75N□	75@150MHZ	10	30@150MHZ	1.4	0.600	400
AISC0603-82N□	82@150MHZ	10	34@150MHZ	1.7	0.550	400
AISC0603-R10□	100@150MHZ	10	30@150MHZ	1.4	0.630	400
AISC0603-R12□	120@150MHZ	10	32@150MHZ	1.3	0.730	300
AISC0603-R15□	150@150MHZ	10	28@150MHZ	0.99	0.800	280
AISC0603-R18□	180@100MHZ	10	25@100MHZ	0.99	1.450	240
AISC0603-R20□	200@100MHZ	10	25@100MHZ	0.9	1.550	200
AISC0603-R22□	220@100MHZ	10	25@100MHZ	0.9	2.100	200
AISC0603-R27□	270@100MHZ	10	24@100MHZ	0.9	2.300	170
AISC0603-R33□	330@100MHZ	10	25@100MHZ	0.9	3.890	100
AISC0603-R39□	390@100MHZ	10	25@100MHZ	0.8	4.350	100

## TECHNICAL INFORMATION:

- Testing: (Equivalent acceptable)  
Inductance: HP4191A  
Q:HP4291A  
SRF:HP8753B  
RDC:measured @ 25°C
- Operating Temperature:  
Ceramic-55°C to +125°C
- Pad metalization: Tungsten-nickel with gold flash
- Solder methods: Wave, Reflow, Vapor Phase
- Solderability: Max 260°C for 10 seconds

## PHYSICAL CHARACTERISTICS:

Dimensions:(mm)



PCB LAYOUT

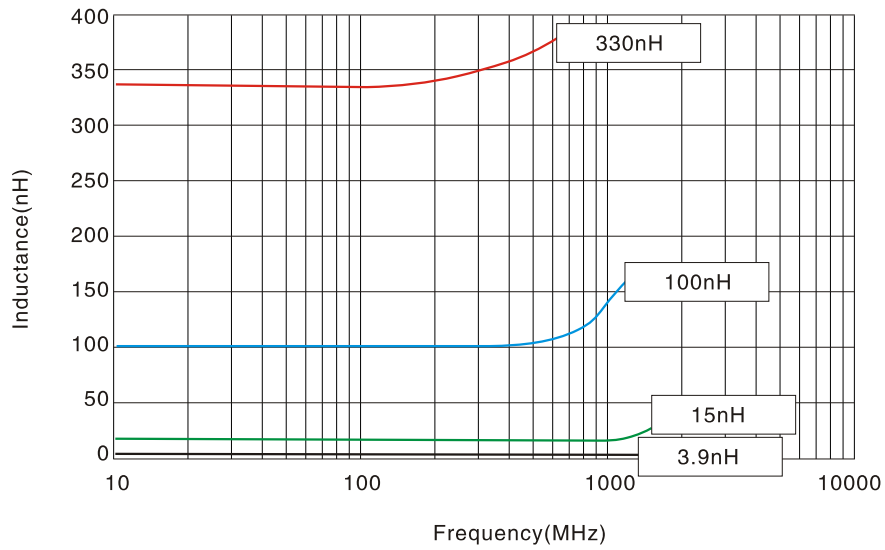
Winding



□ G= ± 2%, J= ± 5%, K= ± 10%, M= ± 20%, N= ± 30%

# SURFACE-MOUNT WIRE WOUND CERAMIC CHIP INDUCTORS

Inductance vs Frequency



Q vs Frequency

