

# SURFACE-MOUNT WIRE WOUND FERRITE CHIP INDUCTORS

## AISC0603F SERIES



### FEATURES:

- Miniature size, suitable for SMT
- Low DC resistance, high current and high inductance and high reliability

### APPLICATIONS:

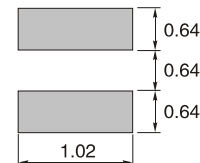
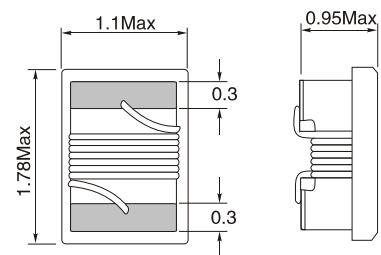
- Low DC resistance, high current and high inductance and high reliability

### ELECTRICAL CHARACTERISTICS:

### PHYSICAL CHARACTERISTICS:

Part Number	L(nH)	Tolerance (%)	Q Min	SRF (MHz) Min	DCR (Ω) Max	IDC (mA) Max
AISC0603F-R10□	100@7.9MHz	10,5	12@7.9MHz	1150	0.13	1000
AISC0603F-R12□	120@7.9MHz	10,5	12@7.9MHz	1100	0.16	900
AISC0603F-R15□	150@7.9MHz	10,5	12@7.9MHz	1050	0.15	700
AISC0603F-R18□	180@7.9MHz	10,5	12@7.9MHz	950	0.15	600
AISC0603F-R22□	220@7.9MHz	10,5	12@7.9MHz	900	0.16	500
AISC0603F-R27□	270@7.9MHz	10,5	12@7.9MHz	775	0.30	420
AISC0603F-R33□	330@7.9MHz	10,5	12@7.9MHz	725	0.32	400
AISC0603F-R39□	390@7.9MHz	10,5	12@7.9MHz	620	0.51	380
AISC0603F-R47□	470@7.9MHz	10,5	12@7.9MHz	540	0.62	350
AISC0603F-R56□	560@7.9MHz	10,5	12@7.9MHz	600	0.65	330
AISC0603F-R68□	680@7.9MHz	10,5	12@7.9MHz	500	1.00	1000
AISC0603F-R82□	820@7.9MHz	10,5	12@7.9MHz	500	1.30	1000
AISC0603F-1R0□	1000@7.9MH	10,5	12@7.9MHz	400	1.50	1000
AISC0603F-1R2□	1200@7.9MH	10,5	12@7.9MHz	380	1.70	320
AISC0603F-1R5□	1500@7.9MH	10,5	12@7.9MHz	300	1.90	310
AISC0603F-1R8□	1800@7.9MH	10,5	12@7.9MHz	180	2.20	300
AISC0603F-2R2□	2200@7.9MH	10,5	12@7.9MHz	180	2.30	280
AISC0603F-2R7□	2700@7.9MH	10,5	12@7.9MHz	150	2.60	250
AISC0603F-3R3□	3300@7.9MH	10,5	12@7.9MHz	150	2.90	230
AISC0603F-3R9□	3900@7.9MH	10,5	12@7.9MHz	120	3.20	210
AISC0603F-4R7□	4700@7.9MH	10,5	12@7.9MHz	100	4.00	200

Dimensions:(mm)



PCB LAYOUT

Winding



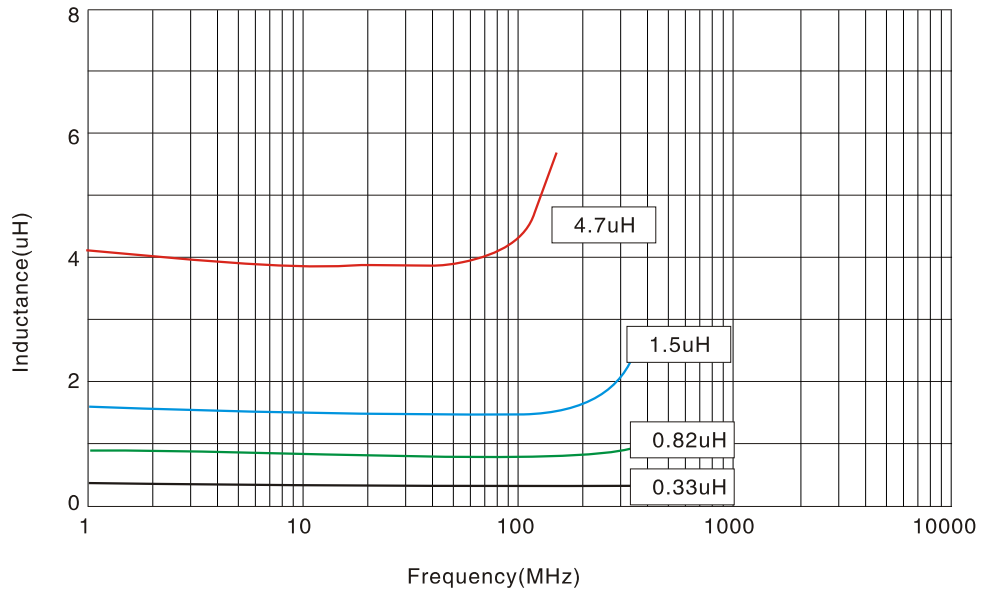
□ G= ± 2%, J= ± 5%, K= ± 10%, M= ± 20%, N= ± 30%

### NOTES:

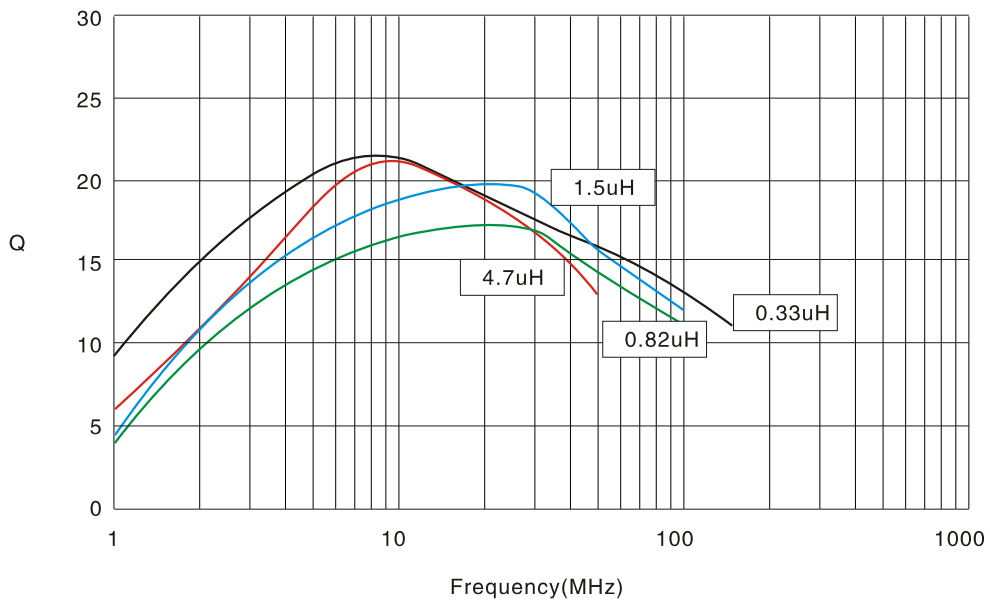
- Testing: (Equivalent acceptable)@ 25°C . . . . . Inductance,Q: HP4191A, SRF:HP8753B
- Operating Temperature: . . . . . -40°C to +125°C
- Solder methods: . . . . . Wave, Reflow,Vapor Phase
- Solderability: . . . . . Max 260°C for 10 seconds

# SURFACE-MOUNT WIRE WOUND CERAMIC CHIP INDUCTORS

Inductance vs Frequency



Q vs Frequency



# SURFACE-MOUNT WIRE WOUND FERRITE CHIP INDUCTORS

## AISC0805F SERIES



### FEATURES:

- Minature size, suitable for SMT
- Low DC resistance, high current and high inductance and high reliability

### APPLICATIONS:

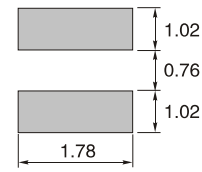
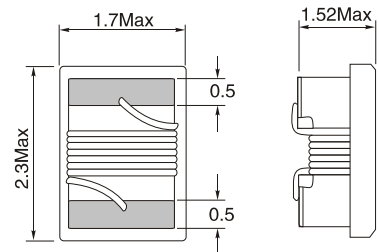
- Low DC resistance, high current and high inductance and high reliability

### ELECTRICAL CHARACTERISTICS:

Part Number	L(uH)	Tolerance (%)	Q Min	SRF (MHz) Min	DCR (Ω) Max	IDC (mA) Max
AISC0805F-1R0□	1.0@7.96MHz	10,5	12@7.96MHz	360	1.00	430
AISC0805F-1R2□	1.2@7.96MHz	10,5	12@7.96MHz	350	1.15	410
AISC0805F-1R5□	1.5@7.96MHz	10,5	12@7.96MHz	300	1.20	400
AISC0805F-1R8□	1.8@7.96MHz	10,5	12@7.96MHz	200	1.35	380
AISC0805F-2R2□	2.2@7.96MHz	10,5	12@7.96MHz	170	1.50	350
AISC0805F-2R7□	2.7@7.96MHz	10,5	12@7.96MHz	100	1.70	320
AISC0805F-3R3□	3.3@7.96MHz	10,5	12@7.96MHz	90	1.80	300
AISC0805F-3R9□	3.9@7.96MHz	10,5	12@7.96MHz	90	1.95	280
AISC0805F-4R7□	4.7@7.96MHz	10,5	12@7.96MHz	85	2.05	250
AISC0805F-5R6□	5.6@7.96MHz	10,5	12@7.96MHz	70	2.30	240
AISC0805F-6R8□	6.8@7.96MHz	10,5	12@7.96MHz	55	2.60	220
AISC0805F-7R5□	7.5@7.96MHz	10,5	12@7.96MHz	55	2.80	210
AISC0805F-8R2□	8.2@7.96MHz	10,5	12@7.96MHz	50	3.00	180
AISC0805F-100□	10@2.52MHz	10,5	10@2.52MHz	30	3.20	150
AISC0805F-120□	12@2.52MHz	10,5	10@2.52MHz	17	3.50	110
AISC0805F-150□	15@2.52MHz	10,5	10@2.52MHz	16	4.20	100
AISC0805F-180□	18@2.52MHz	10,5	10@2.52MHz	15	4.50	95
AISC0805F-220□	22@2.52MHz	10,5	10@2.52MHz	14	6.00	80

### PHYSICAL CHARACTERISTICS:

Dimensions:(mm)



PCB LAYOUT

Winding



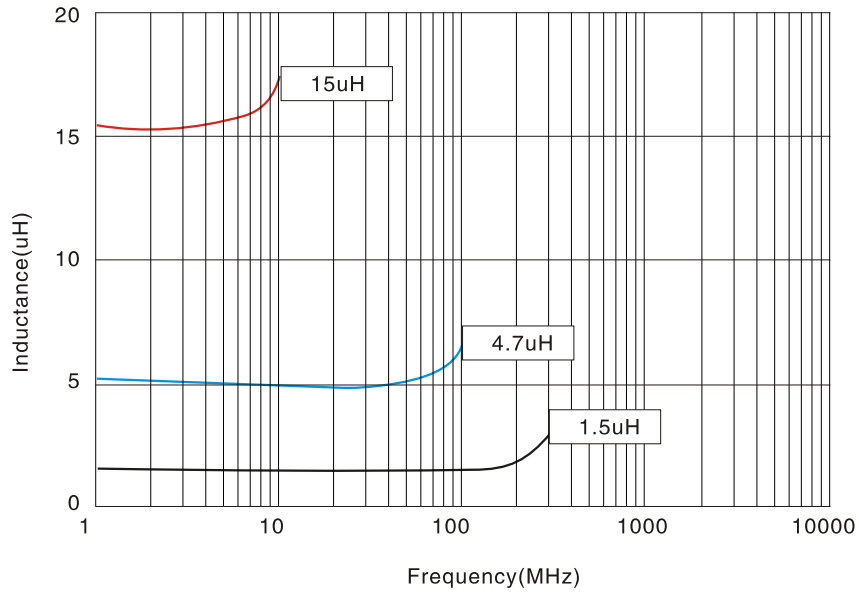
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### NOTES:

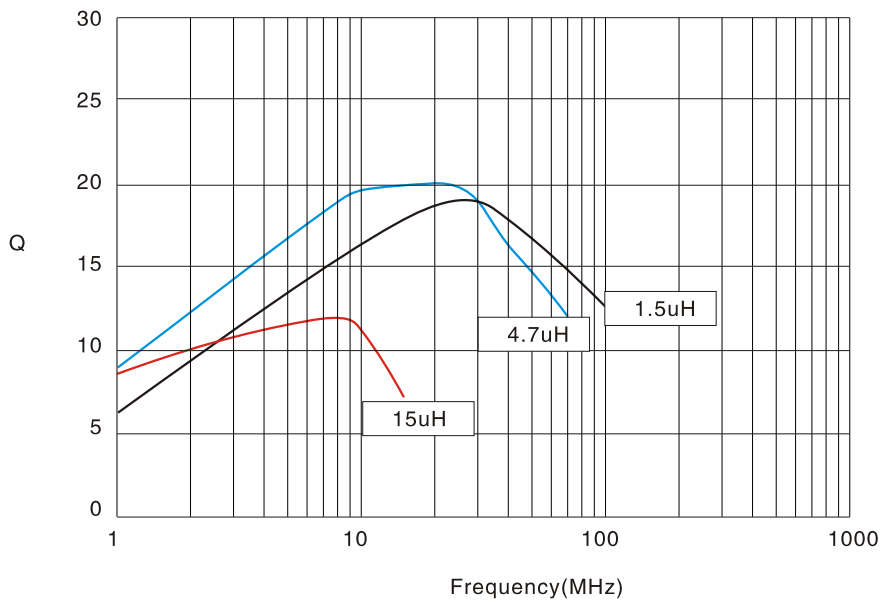
- Testing: (Equivalent acceptable)@ 25°C . . . . . Inductance,Q: HP4191A, SRF:HP8753B
- Operating Temperature: . . . . . -40°C to +125°C
- Solder methods: . . . . . Wave, Reflow,Vapor Phase
- Solderability: . . . . . Max 260°C for 10 seconds

# SURFACE-MOUNT WIRE WOUND CERAMIC CHIP INDUCTORS

Inductance vs Frequency



Q vs Frequency



# SURFACE-MOUNT WIRE WOUND FERRITE CHIP INDUCTORS

## AISC1008F SERIES



### FEATURES:

- Minature size, suitable for SMT
- Low DC resistance, high current and high inductance and high reliability

### APPLICATIONS:

- Low DC resistance?high current and high inductance and high reliability

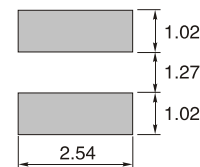
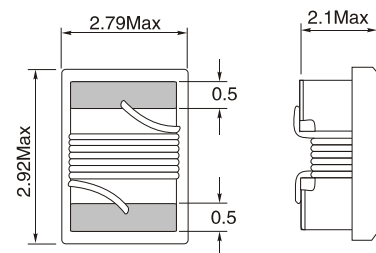
### ELECTRICAL CHARACTERISTICS:

### PHYSICAL CHARACTERISTICS:

Part Number	L(uH)	Tolerance (%)	Q Min	SRF (MHz) Min	DCR (Ω) Max	IDC (mA) Max
AISC1008F-1R0□	1.0@25.2MHz	10,5	18@25.2MHz	300	0.55	580
AISC1008F-1R2□	1.2@7.96MHz	10,5	18@7.96MHz	250	0.75	550
AISC1008F-1R5□	1.5@7.96MHz	10,5	18@7.96MHz	230	0.85	400
AISC1008F-1R8□	1.8@7.96MHz	10,5	18@7.96MHz	168	0.95	320
AISC1008F-2R2□	2.2@7.96MHz	10,5	18@7.96MHz	150	1.30	315
AISC1008F-2R7□	2.7@7.96MHz	10,5	18@7.96MHz	100	1.40	300
AISC1008F-3R3□	3.3@7.96MHz	10,5	18@7.96MHz	80	1.50	280
AISC1008F-3R9□	3.9@7.96MHz	10,5	18@7.96MHz	60	1.55	250
AISC1008F-4R7□	4.7@7.96MHz	10,5	18@7.96MHz	50	1.75	210
AISC1008F-5R6□	5.6@7.96MHz	10,5	15@7.96MHz	40	1.90	190
AISC1008F-6R8□	6.8@7.96MHz	10,5	15@7.96MHz	35	2.00	175
AISC1008F-7R5□	7.5@7.96MHz	10,5	15@7.96MHz	30	2.10	170
AISC1008F-8R2□	8.2@7.96MHz	10,5	15@7.96MHz	25	2.20	160
AISC1008F-100□	10@2.52MHz	10,5	12@2.52MHz	25	2.50	155
AISC1008F-120□	12@2.52MHz	10,5	12@2.52MHz	20	2.60	145
AISC1008F-150□	15@2.52MHz	10,5	12@2.52MHz	20	3.00	130
AISC1008F-180□	18@2.52MHz	10,5	12@2.52MHz	20	3.00	130
AISC1008F-220□	22@2.52MHz	10,5	12@2.52MHz	18	3.90	105
AISC1008F-270□	27@2.52MHz	10,5	12@2.52MHz	10	4.00	100
AISC1008F-330□	33@2.52MHz	10,5	10@2.52MHz	8	4.80	85
AISC1008F-390□	39@2.52MHz	10,5	10@2.52MHz	7	5.00	80
AISC1008F-470□	47@2.52MHz	10,5	10@2.52MHz	7	5.70	60
AISC1008F-560□	56@2.52MHz	10,5	10@2.52MHz	6.5	6.00	55
AISC1008F-680□	68@2.52MHz	10,5	10@2.52MHz	6.5	6.70	50
AISC1008F-820□	82@2.52MHz	10,5	10@2.52MHz	6.5	7.50	45
AISC1008F-101□	100@0.796MHz	10,5	8@0.796MHz	4.5	11.0	40
AISC1008F-121□	120@0.796MHz	10,5	8@0.796MHz	3.0	13.0	30
AISC1008F-151□	150@0.796MHz	10,5	8@0.796MHz	3.0	15.0	25
AISC1008F-221□	220@0.796MHz	10	8@0.796MHz	2.5	18.0	20

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

Dimensions:(mm)



PCB LAYOUT

Winding

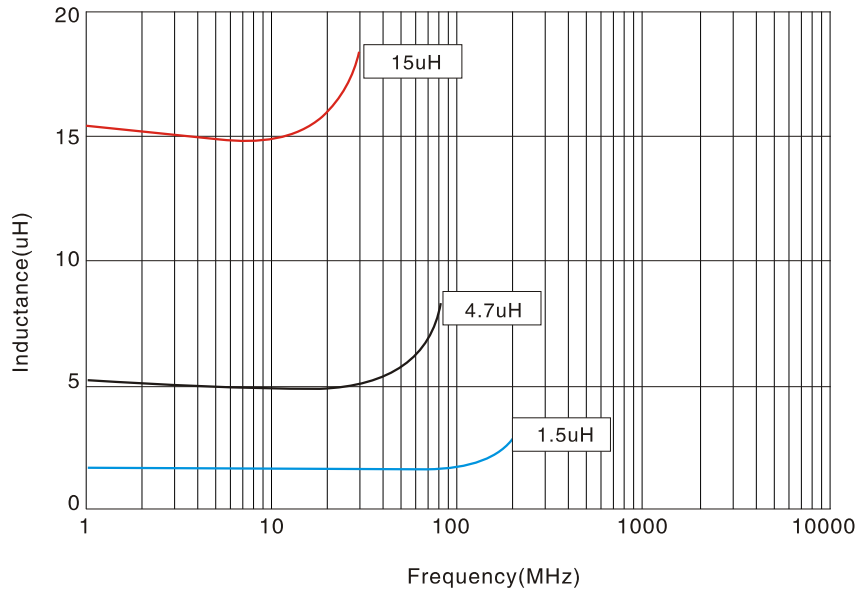


### NOTES:

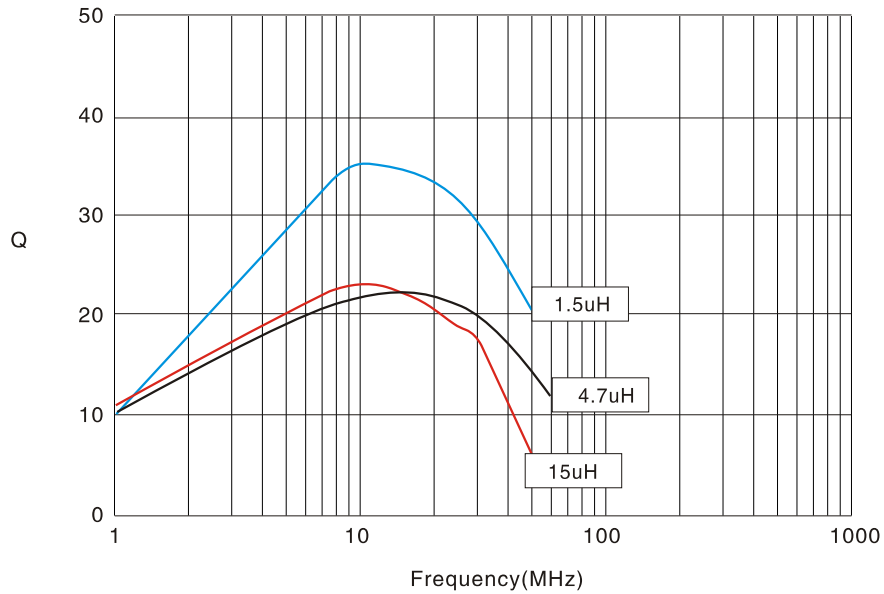
- Testing: (Equivalent acceptable)@ 25°C . . . . . Inductance,Q: HP4191A, SRF:HP8753B
- Operating Temperature: . . . . . -40°C to +125°C
- Solder methods: . . . . . Wave, Reflow,Vapor Phase
- Solderability: . . . . . Max 260°C for 10 seconds

# SURFACE-MOUNT WIRE WOUND CERAMIC CHIP INDUCTORS

Inductance vs Frequency



Q vs Frequency



# SURFACE-MOUNT WIRE WOUND FERRITE CHIP INDUCTORS

## AISC1206F SERIES



### FEATURES:

- Minature size, suitable for SMT
- Low DC resistance, high current and high inductance and high reliability

### APPLICATIONS:

- Low DC resistance high current and high inductance and high reliability

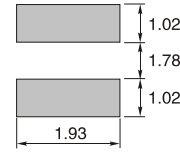
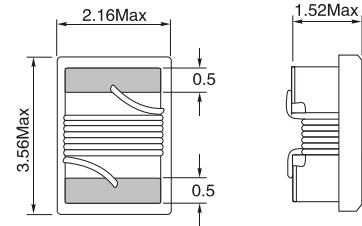
### ELECTRICAL CHARACTERISTICS:

Part Number	L(uH)	Tolerance (%)	Q Min	SRF (MHz) Min	DCR (Ω) Max	IDC (mA) Max
AISC1206F-1R5□	1.5@7.96MHz	20,10,5	25@7.96MHz	260	1.2	320
AISC1206F-1R8□	1.8@7.96MHz	20,10,5	25@7.96MHz	250	1.2	320
AISC1206F-2R2□	2.2@7.96MHz	20,10,5	25@7.96MHz	240	1.3	300
AISC1206F-2R7□	2.7@7.96MHz	20,10,5	25@7.96MHz	230	1.4	300
AISC1206F-3R3□	3.3@7.96MHz	20,10,5	25@7.96MHz	200	1.5	280
AISC1206F-3R9□	3.9@7.96MHz	20,10,5	25@7.96MHz	190	1.9	280
AISC1206F-4R7□	4.7@7.96MHz	20,10,5	25@7.96MHz	170	2.2	280
AISC1206F-5R6□	5.6@7.96MHz	20,10,5	25@7.96MHz	160	2.4	260
AISC1206F-6R8□	6.8@7.96MHz	20,10,5	25@7.96MHz	150	2.8	240
AISC1206F-8R2□	8.2@7.96MHz	20,10,5	25@7.96MHz	130	3.1	220
AISC1206F-100□	10@7.96MHz	20,10,5	25@7.96MHz	120	4.0	200
AISC1206F-120□	12@2.52MHz	20,10,5	18@2.52MHz	110	4.6	200
AISC1206F-150□	15@2.52MHz	20,10,5	16@2.52MHz	90	8.2	160
AISC1206F-180□	18@2.52MHz	20,10,5	16@2.52MHz	80	9.0	130

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

### PHYSICAL CHARACTERISTICS:

Dimensions:(mm)

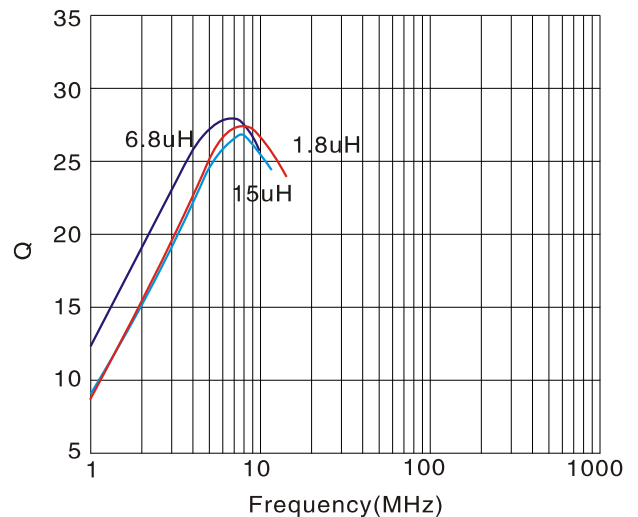
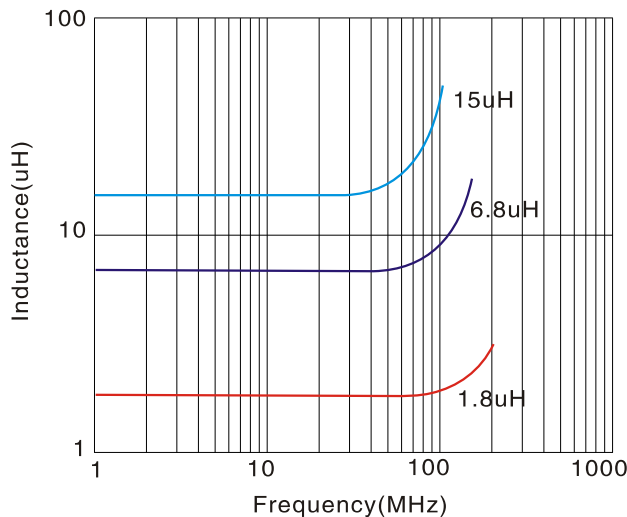


PCB LAYOUT

Winding



### TYPICAL CURVE:



- Testing: (Equivalent acceptable)@ 25°C . . . . . Inductance,Q: HP4191A, SRF:HP8753B
- Operating Temperature: . . . . . -40°C to +125°C
- Solder methods: . . . . . Wave, Reflow, Vapor Phase
- Solderability: . . . . . Max 260°C for 10 seconds

# SURFACE-MOUNT WIRE WOUND FERRITE CHIP INDUCTORS

## AISC1210F SERIES



### FEATURES:

- Minature size, suitable for SMT
- Low DC resistance, high current and high inductance and high reliability

### APPLICATIONS:

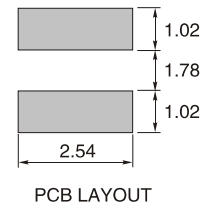
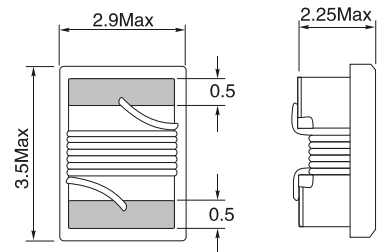
- Low DC resistance, high current and high inductance and high reliability

### ELECTRICAL CHARACTERISTICS:

### PHYSICAL CHARACTERISTICS:

Part Number	L(uH)	Tolerance (%)	Q Min	SRF (MHz) Min	DCR (Ω) Max	IDC (mA) Max
AISC1210F-1R0□	1.0@7.96MHz	10,5	20@7.96MHz	220	0.3	450
AISC1210F-1R2□	1.2@7.96MHz	10,5	20@7.96MHz	210	0.3	450
AISC1210F-1R5□	1.5@7.96MHz	10,5	20@7.96MHz	200	0.4	450
AISC1210F-1R8□	1.8@7.96MHz	10,5	20@7.96MHz	195	0.5	450
AISC1210F-2R2□	2.2@7.96MHz	10,5	20@7.96MHz	175	0.6	450
AISC1210F-2R7□	2.7@7.96MHz	10,5	20@7.96MHz	120	0.7	420
AISC1210F-3R3□	3.3@7.96MHz	10,5	20@7.96MHz	80	1.1	380
AISC1210F-3R9□	3.9@7.96MHz	10,5	20@7.96MHz	75	1.2	360
AISC1210F-4R7□	4.7@7.96MHz	10,5	18@7.96MHz	60	1.3	350
AISC1210F-5R6□	5.6@7.96MHz	10,5	18@7.96MHz	50	2.0	320
AISC1210F-6R8□	6.8@7.96MHz	10,5	18@7.96MHz	35	1.5	310
AISC1210F-8R2□	8.2@7.96MHz	10,5	18@7.96MHz	35	1.6	305
AISC1210F-100□	10@2.52MHz	10,5	15@2.52MHz	30	1.0	300
AISC1210F-120□	12@2.52MHz	10,5	15@2.52MHz	25	1.2	265
AISC1210F-150□	15@2.52MHz	10,5	15@2.52MHz	22	2.0	225
AISC1210F-180□	18@2.52MHz	10,5	15@2.52MHz	22	2.1	210
AISC1210F-220□	22@2.52MHz	10,5	15@2.52MHz	20	2.4	200
AISC1210F-270□	27@2.52MHz	10,5	15@2.52MHz	18	2.7	180
AISC1210F-330□	33@2.52MHz	10,5	15@2.52MHz	15	2.9	160
AISC1210F-390□	39@2.52MHz	10,5	15@2.52MHz	16	4.7	150
AISC1210F-470□	47@2.52MHz	10,5	15@2.52MHz	10	5.2	140
AISC1210F-560□	56@2.52MHz	10,5	15@2.52MHz	8	5.6	125
AISC1210F-680□	68@2.52MHz	10,5	12@2.52MHz	5	4.7	110
AISC1210F-820□	82@2.52MHz	10,5	12@2.52MHz	5	5.6	100
AISC1210F-101□	100@0.796MHz	10,5	10@0.796MHz	5	6.8	95
AISC1210F-121□	120@0.796MHz	10,5	10@0.796MHz	4	7.9	85
AISC1210F-151□	150@0.796MHz	10,5	10@0.796MHz	4.0	9.0	80
AISC1210F-181□	180@0.796MHz	10,5	8@0.796MHz	3.0	14.5	70
AISC1210F-221□	220@0.796MHz	10,5	8@0.796MHz	2.6	16.5	65
AISC1210F-271□	270@0.796MHz	10	8@0.796MHz	2.5	18.0	60
AISC1210F-331□	330@0.796MHz	10	8@0.796MHz	2.3	19.0	55
AISC1210F-391□	390@0.796MHz	10	8@0.796MHz	2.2	21.5	45
AISC1210F-471□	470@0.796MHz	10	8@0.796MHz	2.0	22.5	40
AISC1210F-561□	560@0.796MHz	10	6@0.796MHz	1.5	28.0	30

Dimensions:(mm)



Winding



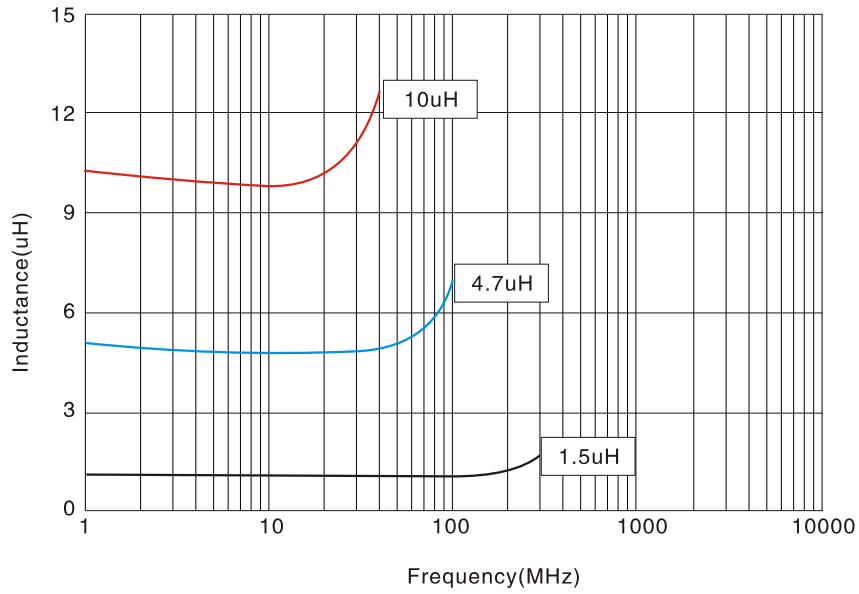
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M= ± 20%, N= ± 30%

### NOTES:

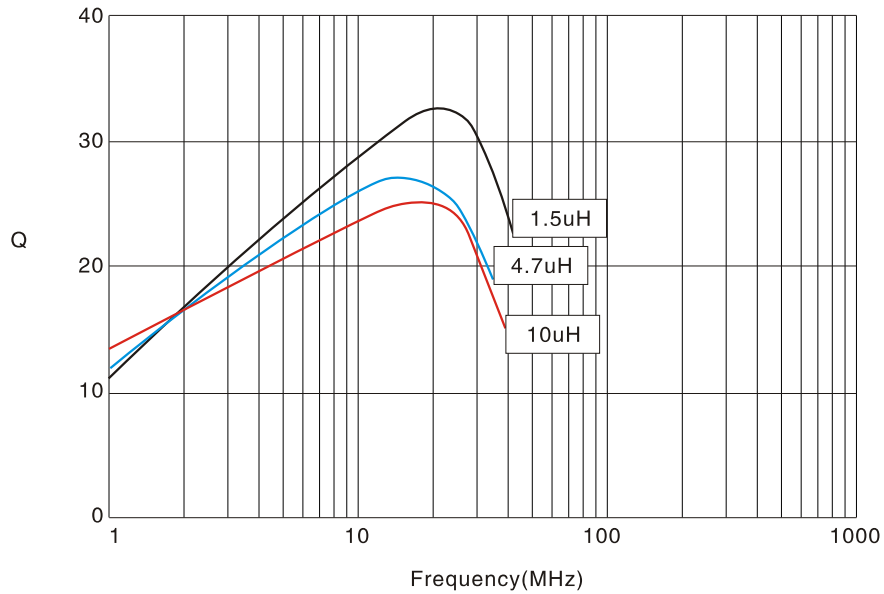
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- Operating Temperature: . . . . . -40°C to +125°C
- Solder methods: . . . . . Wave, Reflow,Vapor Phase
- Solderability: . . . . . Max 260°C for 10 seconds

# SURFACE-MOUNT WIRE WOUND CERAMIC CHIP INDUCTORS

Inductance vs Frequency



Q vs Frequency



# SURFACE-MOUNT WIRE WOUND FERRITE CHIP INDUCTORS

## AISC1812F SERIES



### FEATURES:

- Minature size, suitable for SMT
- Low DC resistance, high current and high inductance and high reliability

### APPLICATIONS:

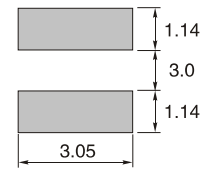
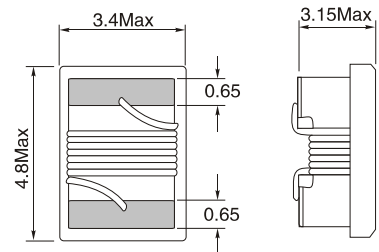
- Low DC resistance?high current and high inductance and high reliability

### ELECTRICAL CHARACTERISTICS:

### PHYSICAL CHARACTERISTICS:

Part Number	L(uH)	Tolerance (%)	Q Min	SRF (MHz) Min	DCR (Ω) Max	IDC (mA) Max
AISC1812F-1R0□	1.0@7.96MHz	10,5	25@7.96MHz	200	0.22	1000
AISC1812F-1R2□	1.2@7.96MHz	10,5	25@7.96MHz	200	0.35	1000
AISC1812F-1R5□	1.5@7.96MHz	10,5	25@7.96MHz	180	0.32	1000
AISC1812F-1R8□	1.8@7.96MHz	10,5	25@7.96MHz	160	0.35	950
AISC1812F-2R2□	2.2@7.96MHz	10,5	25@7.96MHz	150	0.37	900
AISC1812F-2R7□	2.7@7.96MHz	10,5	25@7.96MHz	145	0.37	850
AISC1812F-3R3□	3.3@7.96MHz	10,5	25@7.96MHz	140	0.48	800
AISC1812F-3R9□	3.9@7.96MHz	10,5	25@7.96MHz	135	0.60	750
AISC1812F-4R7□	4.7@7.96MHz	10,5	25@7.96MHz	120	1.00	700
AISC1812F-5R6□	5.6@7.96MHz	10,5	25@7.96MHz	110	0.55	650
AISC1812F-6R8□	6.8@7.96MHz	10,5	25@7.96MHz	80	0.80	600
AISC1812F-8R2□	8.2@7.96MHz	10,5	20@7.96MHz	70	0.85	600
AISC1812F-100□	10@2.52MHz	10,5	20@2.52MHz	60	1.0	550
AISC1812F-120□	12@2.52MHz	10,5	20@2.52MHz	55	1.1	550
AISC1812F-150□	15@2.52MHz	10,5	18@2.52MHz	35	1.2	500
AISC1812F-180□	18@2.52MHz	10,5	18@2.52MHz	29	1.2	500
AISC1812F-220□	22@2.52MHz	10,5	18@2.52MHz	20	1.3	450
AISC1812F-270□	27@2.52MHz	10,5	18@2.52MHz	20	1.5	400
AISC1812F-330□	33@2.52MHz	10,5	18@2.52MHz	18	1.7	350
AISC1812F-390□	39@2.52MHz	10,5	18@2.52MHz	14	1.8	350
AISC1812F-470□	47@2.52MHz	10,5	16@2.52MHz	10	2.0	300
AISC1812F-560□	56@2.52MHz	10,5	16@2.52MHz	10	2.2	290
AISC1812F-680□	68@2.52MHz	10,5	12@2.52MHz	5.4	2.4	260
AISC1812F-820□	82@2.52MHz	10,5	12@2.52MHz	5.2	2.8	240
AISC1812F-101□	100@796KHz	10,5	12@796KHz	4.0	3.0	220
AISC1812F-121□	120@796KHz	10,5	10@796KHz	3.3	3.3	220
AISC1812F-151□	150@796KHz	10,5	10@796KHz	3.0	3.7	200
AISC1812F-181□	180@796KHz	10,5	10@796KHz	3.0	4.5	200
AISC1812F-221□	220@796KHz	10	10@796KHz	2.5	8.0	170
AISC1812F-271□	270@796KHz	10,5	10@796KHz	2.2	8.5	160
AISC1812F-331□	330@796KHz	10,5	10@796KHz	2.0	9.0	150
AISC1812F-391□	390@796KHz	10	10@796KHz	1.8	9.5	130
AISC1812F-471□	470@796KHz	10	8@796KHz	1.6	12.0	120
AISC1812F-561□	560@796KHz	10	8@796KHz	1.5	12.5	110
AISC1812F-681□	680@796KHz	10	8@796KHz	1.5	14.0	100
AISC1812F-751□	750@796KHz	10	8@796KHz	1.5	14.5	95
AISC1812F-821□	820@796KHz	10	8@796KHz	1.5	15.0	95
AISC1812F-102□	1000@252KHz	10	6@252KHz	1.4	16.5	90

Dimensions:(mm)



PCB LAYOUT

Winding



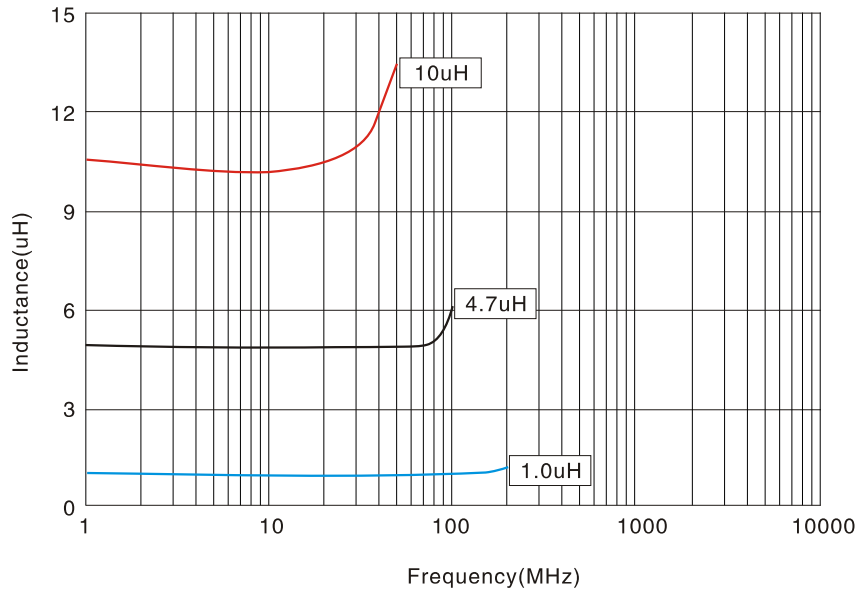
□ G= ± 2%, J= ± 5%, K= ± 10%,  
M= ± 20%, N= ± 30%

### NOTES:

- Testing: (Equivalent acceptable)@ 25°C . . . . . Inductance,Q: HP4191A, SRF:HP8753B
- Operating Temperature: . . . . . -40°C to +125°C
- Solder methods: . . . . . Wave, Reflow,Vapor Phase
- Solderability: . . . . . Max 260°C for 10 seconds

# SURFACE-MOUNT WIRE WOUND CERAMIC CHIP INDUCTORS

Inductance vs Frequency



Q vs Frequency

