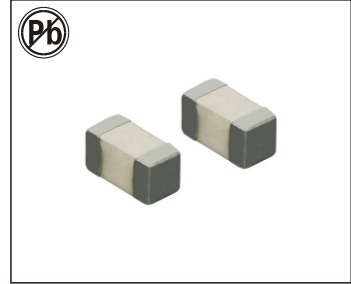


SURFACE-MOUNT MULTI-LAYER CERAMIC CHIP INDUCTORS

AIML-0201C 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:

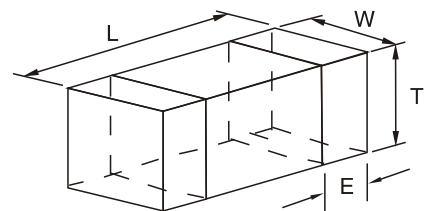
Part Number	L(nH) ± 10%	Q Min	L/Q Tset Freq. (MHz)	SRF (MHz) Min	DCR (Ω) Max	IDC (mA) Max
AIML0201C-0N6C	0.6 ± 0.2	13	500	10000	0.06	600
AIML0201C-0N7C	0.7 ± 0.2	13	500	10000	0.06	550
AIML0201C-0N8C	0.8 ± 0.2	13	500	10000	0.07	550
AIML0201C-1N0S	1.0 ± 0.3	13	500	10000	0.08	520
AIML0201C-1N1S	1.1 ± 0.3	13	500	10000	0.11	440
AIML0201C-1N2S	1.2 ± 0.3	13	500	10000	0.12	440
AIML0201C-1N4S	1.4 ± 0.3	13	500	10000	0.12	430
AIML0201C-1N5S	1.5 ± 0.3	13	500	10000	0.12	420
AIML0201C-1N6S	1.6 ± 0.3	13	500	10000	0.13	410
AIML0201C-1N8S	1.8 ± 0.3	13	500	10000	0.15	380
AIML0201C-2N0S	2.0 ± 0.3	13	500	10000	0.20	360
AIML0201C-2N2S	2.2 ± 0.3	13	500	10000	0.20	350
AIML0201C-2N4S	2.4 ± 0.3	13	500	10000	0.22	330
AIML0201C-2N6S	2.6 ± 0.3	13	500	9400	0.22	320
AIML0201C-2N7S	2.7 ± 0.3	13	500	9200	0.23	300
AIML0201C-3N0S	3.0 ± 0.3	13	500	8600	0.26	280
AIML0201C-3N3S	3.3 ± 0.3	13	500	8100	0.30	270
AIML0201C-3N6S	3.6 ± 0.3	13	500	7700	0.38	240
AIML0201C-3N9S	3.9 ± 0.3	13	500	7400	0.42	230
AIML0201C-4N3S	4.3 ± 0.3	13	500	6800	0.44	220
AIML0201C-4N7S	4.7 ± 0.3	13	500	6200	0.45	220
AIML0201C-5N1S	5.1 ± 0.3	13	500	5900	0.46	210
AIML0201C-5N6S	5.6 ± 0.3	13	500	5500	0.46	210
AIML0201C-6N2S	6.2 ± 0.3	13	500	5100	0.48	210
AIML0201C-6N8J	6.8 ± 5%	13	500	4900	0.50	200
AIML0201C-7N5J	7.5 ± 5%	13	500	4700	0.50	200
AIML0201C-8N2J	8.2 ± 5%	13	500	4300	0.56	190
AIML0201C-9N1J	9.1 ± 5%	13	500	4100	0.72	170
AIML0201C-10NJ	10 ± 5%	13	500	3800	0.80	160
AIML0201C-12NJ	12 ± 5%	13	500	3400	0.80	160
AIML0201C-15NJ	15 ± 5%	13	500	2600	0.85	160
AIML0201C-18NJ	18 ± 5%	13	500	2300	1.00	140
AIML0201C-22NJ	22 ± 5%	13	500	1900	1.20	130
AIML0201C-27NJ	27 ± 5%	13	500	1800	1.60	120
AIML0201C-33NJ	33 ± 5%	13	300	1800	2.20	110
AIML0201C-39NJ	39 ± 5%	11	300	1600	2.30	100
AIML0201C-47NJ	47 ± 5%	11	300	1500	2.60	100
AIML0201C-56NJ	56 ± 5%	11	300	1400	2.80	80
AIML0201C-68NJ	68 ± 5%	11	300	1200	3.20	80
AIML0201C-82NJ	82 ± 5%	10	300	1100	3.80	70
AIML0201C-R10J	100 ± 5%	10	300	1000	4.00	60
AIML0201C-R12J	120 ± 5%	9	300	1000	5.00	50

TECHNICAL INFORMATION:

- Testing:(Equivalent acceptable)
Inductance & Q-HP4195A+HP41951
DCR:VOAC-7412
SRF:HP8720C
- Solderability:90% of the terminal
Electrode shall be covered
Preheat: @ 260°C ± 5°C for 160 seconds
Solder:H63AA Eutectic Solder
Flux:Rosin,Dip for 5 seconds ± 1 second
- Thermal Shock: Inductance shall be
Within ± 5% of initial value
and Q shall be within ± 30% of initial value
When temperature is -40°C and +85°C for 30
Min.for each 100 cycles
- Operating Temperature:-25°C to +85°C
- Storage Temperature: -40°C to +85°C

PHYSICAL CHARACTERISTICS:

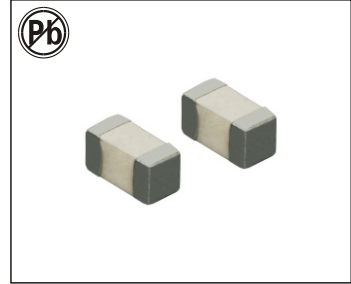
Dimensions:(mm)



L	0.6 ± 0.03
W	0.3 ± 0.03
T	0.3 ± 0.03
E	0.15 ± 0.05

SURFACE-MOUNT MULTI-LAYER CERAMIC CHIP INDUCTORS

AIML-0402C 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:

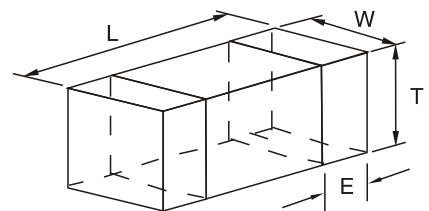
Part Number	L(nH) ± 10%	Q Min	L/Q Tset Freq. (MHz)	SRF (MHz) Min	DCR (Ω) Max	IDC (mA) Max
AIML0402C-1N0S	1.0 ± 0.3	7	100	10000	0.1	400
AIML0402C-1N1S	1.1 ± 0.3	7	100	10000	0.1	400
AIML0402C-1N2S	1.2 ± 0.3	7	100	10000	0.1	400
AIML0402C-1N3S	1.3 ± 0.3	7	100	10000	0.1	400
AIML0402C-1N5S	1.5 ± 0.3	7	100	6000	0.1	300
AIML0402C-1N6S	1.6 ± 0.3	7	100	6000	0.1	300
AIML0402C-1N8S	1.8 ± 0.3	7	100	6000	0.1	300
AIML0402C-2N0S	2.0 ± 0.3	7	100	6000	0.2	300
AIML0402C-2N2S	2.2 ± 0.3	7	100	6000	0.2	300
AIML0402C-2N4S	2.4 ± 0.3	7	100	6000	0.2	300
AIML0402C-2N7S	2.7 ± 0.3	7	100	6000	0.2	300
AIML0402C-3N0S	3.0 ± 0.3	7	100	6000	0.2	300
AIML0402C-3N3S	3.3 ± 0.3	7	100	6000	0.2	300
AIML0402C-3N6S	3.6 ± 0.3	7	100	4000	0.2	300
AIML0402C-3N9S	3.9 ± 0.3	7	100	4000	0.2	300
AIML0402C-4N3S	4.3 ± 0.3	7	100	4000	0.2	300
AIML0402C-4N7S	4.7 ± 0.3	7	100	4000	0.2	300
AIML0402C-5N1S	5.1 ± 0.3	7	100	4000	0.3	300
AIML0402C-5N6S	5.6 ± 0.3	7	100	4000	0.3	300
AIML0402C-6N2S	6.2 ± 0.3	7	100	3900	0.3	300
AIML0402C-6N8J	6.8 ± 5%	7	100	3900	0.3	300
AIML0402C-7N5J	7.5 ± 5%	7	100	3700	0.4	300
AIML0402C-8N2J	8.2 ± 5%	7	100	3600	0.4	300
AIML0402C-9N1J	9.1 ± 5%	7	100	3400	0.4	300
AIML0402C-10NJ	10 ± 5%	7	100	3200	0.4	300
AIML0402C-12NJ	12 ± 5%	8	100	2700	0.5	300
AIML0402C-15NJ	15 ± 5%	8	100	2300	0.5	300
AIML0402C-18NJ	18 ± 5%	8	100	2100	0.6	300
AIML0402C-20NJ	20 ± 5%	8	100	2000	0.6	300
AIML0402C-22NJ	22 ± 5%	8	100	1900	0.6	300
AIML0402C-27NJ	27 ± 5%	8	100	1600	0.7	300
AIML0402C-33NJ	33 ± 5%	8	100	1300	0.8	200
AIML0402C-39NJ	39 ± 5%	8	100	1200	1.0	200
AIML0402C-47NJ	47 ± 5%	8	100	1100	1.1	200
AIML0402C-56NJ	56 ± 5%	8	100	750	1.2	200
AIML0402C-68NJ	68 ± 5%	8	100	750	1.4	180
AIML0402C-82NJ	82 ± 5%	8	100	750	2.4	150
AIML0402C-R10J	100 ± 5%	8	100	700	2.6	150
AIML0402C-R12J	120 ± 5%	8	100	600	2.8	150
AIML0402C-R15J	150 ± 5%	8	100	550	3.2	100
AIML0402C-R18J	180 ± 5%	8	100	500	3.7	100
AIML0402C-R22J	220 ± 5%	8	100	450	4.0	100

TECHNICAL INFORMATION:

- Testing:(Equivalent acceptable)
Inductance & Q-HP4195A+HP41951
DCR:VOAC-7412
SRF:HP8720C
- Solderability:90% of the terminal
Electrode shall be covered
Preheat: @ 260°C ± 5°C for 160 seconds
Solder:H63AA Eutectic Solder
Flux:Rosin,Dip for 5 seconds ± 1 second
- Thermal Shock: Inductance shall be
Within ± 5% of initial value
and Q shall be within ± 30% of initial value
When temperature is -40°C and +85°C for 30
Min.for each 100 cycles
- Operating Temperature:-25°C to +85°C
- Storage Temperature: -40°C to +85°C

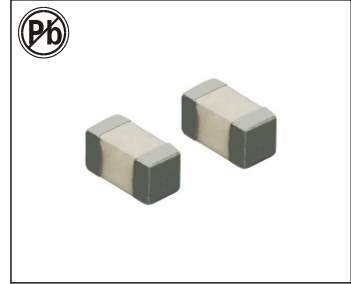
PHYSICAL CHARACTERISTICS:

Dimensions:(mm)



L	1.0 ± 0.15
W	0.5 ± 0.15
T	0.5 ± 0.15
E	0.25 ± 0.1

SURFACE-MOUNT MULTI-LAYER CERAMIC CHIP INDUCTORS AIML-0603C 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:

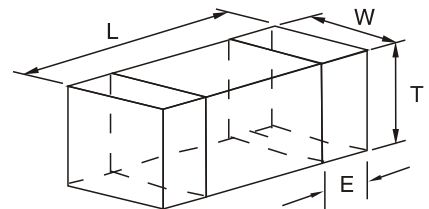
Part Number	L(nH) ± 10%	Q Min	L/Q Tset Freq. (MHz)	SRF (MHz) Min	DCR (Ω) Max	IDC (mA) Max
AIML0603C-1N0S	1.0 ± 0.3	8	100	10000	0.05	500
AIML0603C-1N2S	1.2 ± 0.3	8	100	10000	0.10	500
AIML0603C-1N5S	1.5 ± 0.3	8	100	10000	0.10	400
AIML0603C-1N8S	1.8 ± 0.3	8	100	9800	0.12	400
AIML0603C-2N2S	2.2 ± 0.3	8	100	7600	0.20	400
AIML0603C-2N7S	2.7 ± 0.3	8	100	7000	0.20	400
AIML0603C-3N3S	3.3 ± 0.3	8	100	6200	0.20	400
AIML0603C-3N9S	3.9 ± 0.3	8	100	5600	0.25	400
AIML0603C-4N7S	4.7 ± 0.3	8	100	4800	0.30	400
AIML0603C-5N6S	5.6 ± 0.3	8	100	4600	0.30	400
AIML0603C-6N8J	6.8 ± 5%	8	100	4200	0.35	400
AIML0603C-8N2J	8.2 ± 5%	8	100	3600	0.35	400
AIML0603C-10NJ	10 ± 5%	8	100	3200	0.40	300
AIML0603C-12NJ	12 ± 5%	8	100	2800	0.40	300
AIML0603C-15NJ	15 ± 5%	8	100	2600	0.45	300
AIML0603C-18NJ	18 ± 5%	8	100	2400	0.60	300
AIML0603C-22NJ	22 ± 5%	8	100	2000	0.60	300
AIML0603C-27NJ	27 ± 5%	8	100	1900	0.80	300
AIML0603C-33NJ	33 ± 5%	8	100	1600	0.80	300
AIML0603C-39NJ	39 ± 5%	8	100	1400	1.00	300
AIML0603C-47NJ	47 ± 5%	8	100	1200	1.00	200
AIML0603C-56NJ	56 ± 5%	8	100	1000	1.00	200
AIML0603C-68NJ	68 ± 5%	8	100	900	1.00	200
AIML0603C-82NJ	82 ± 5%	8	100	800	1.00	200
AIML0603C-R10J	100 ± 5%	8	100	700	1.40	200
AIML0603C-R12J	120 ± 5%	8	50	600	1.60	150
AIML0603C-R15J	150 ± 5%	8	50	500	1.80	150
AIML0603C-R18J	180 ± 5%	8	50	500	1.80	150
AIML0603C-R22J	220 ± 5%	8	50	350	2.40	150
AIML0603C-R27J	270 ± 5%	8	50	350	2.60	150
AIML0603C-R33J	330 ± 5%	8	50	350	2.80	150
AIML0603C-R39K	390 ± 10%	8	50	300	3.20	150
AIML0603C-R43K	430 ± 10%	8	50	280	3.40	150
AIML0603C-R47K	470 ± 10%	8	50	250	3.60	150

TECHNICAL INFORMATION:

- Testing:(Equivalent acceptable)
Inductance & Q-HP4195A+HP41951
DCR:VOAC-7412
SRF:HP8720C
- Solderability:90% of the terminal
Electrode shall be covered
Preheat: @ 260°C ± 5°C for 160 seconds
Solder:H63AA Eutectic Solder
Flux:Rosin,Dip for 5 seconds ± 1 second
- Thermal Shock: Inductance shall be
Within ± 5% of initial value
and Q shall be within ± 30% of initial value
When temperature is -40°C and +85°C for 30
Min.for each 100 cycles
- Operating Temperature:-25°C to +85°C
- Storage Temperature: -40°C to +85°C

PHYSICAL CHARACTERISTICS:

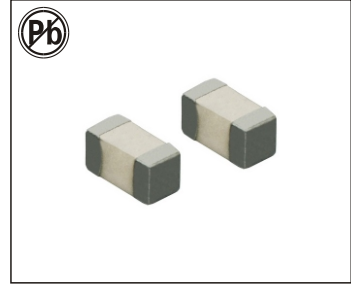
Dimensions:(mm)



L	1.6 ± 0.2
W	0.8 ± 0.2
T	0.8 ± 0.2
E	0.3 ± 0.2

SURFACE-MOUNT MULTI-LAYER CERAMIC CHIP INDUCTORS

AIML-0805C 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:

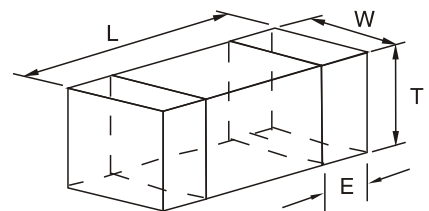
Part Number	L(nH) ± 10%	Q Min	L/Q Tset Freq. (MHz)	SRF (MHz) Min	DCR (Ω) Max	IDC (mA) Max
AIML0805C-1N5S	1.5 ± 0.3	8	100	6000	0.10	600
AIML0805C-1N8S	1.8 ± 0.3	8	100	6000	0.10	600
AIML0805C-2N2S	2.2 ± 0.3	8	100	6000	0.10	600
AIML0805C-2N7S	2.7 ± 0.3	8	100	6000	0.10	600
AIML0805C-3N3S	3.3 ± 0.3	8	100	6000	0.13	600
AIML0805C-3N9S	3.9 ± 0.3	8	100	5400	0.15	600
AIML0805C-4N7S	4.7 ± 0.3	8	100	4500	0.20	400
AIML0805C-5N6S	5.6 ± 0.3	8	100	4000	0.23	400
AIML0805C-6N8J	6.8 ± 5%	8	100	3650	0.25	400
AIML0805C-8N2J	8.2 ± 5%	8	100	3000	0.28	400
AIML0805C-10NJ	10 ± 5%	8	100	2500	0.30	300
AIML0805C-12NJ	12 ± 5%	8	100	2450	0.35	300
AIML0805C-15NJ	15 ± 5%	8	100	2000	0.40	300
AIML0805C-18NJ	18 ± 5%	8	100	1750	0.45	300
AIML0805C-22NJ	22 ± 5%	8	100	1700	0.50	300
AIML0805C-27NJ	27 ± 5%	8	100	1550	0.55	300
AIML0805C-33NJ	33 ± 5%	8	100	1350	0.60	300
AIML0805C-39NJ	39 ± 5%	8	100	1300	0.70	300
AIML0805C-47NJ	47 ± 5%	8	100	1200	0.80	300
AIML0805C-56NJ	56 ± 5%	8	100	1150	0.80	300
AIML0805C-68NJ	68 ± 5%	8	100	1000	0.85	300
AIML0805C-82NJ	82 ± 5%	8	100	850	0.90	300
AIML0805C-R10J	100 ± 5%	8	100	600	1.00	300
AIML0805C-R12J	120 ± 5%	8	50	500	1.20	300
AIML0805C-R15K	150 ± 10%	8	50	500	1.50	300
AIML0805C-R18K	180 ± 10%	8	50	400	1.80	300
AIML0805C-R22K	220 ± 10%	8	50	350	1.80	300
AIML0805C-R27K	270 ± 10%	8	50	350	1.80	300
AIML0805C-R33K	330 ± 10%	8	50	300	2.00	300
AIML0805C-R39K	390 ± 10%	8	50	250	2.00	300
AIML0805C-R47K	470 ± 10%	8	50	200	2.00	300

TECHNICAL INFORMATION:

- Testing:(Equivalent acceptable)
Inductance & Q-HP4195A+HP41951
DCR:VOAC-7412
SRF:HP8720C
- Solderability:90% of the terminal
Electrode shall be covered
Preheat: @ 260°C ± 5°C for 160 seconds
Solder:H63AA Eutectic Solder
Flux:Rosin,Dip for 5 seconds ± 1 second
- Thermal Shock: Inductance shall be
Within ± 5% of initial value
and Q shall be within ± 30% of initial value
When temperature is -40°C and +85°C for 30
Min.for each 100 cycles
- Operating Temperature:-25°C to +85°C
- Storage Temperature: -40°C to +85°C

PHYSICAL CHARACTERISTICS:

Dimensions:(mm)



L	2.0 ± 0.2
W	1.2 ± 0.2
T	0.9 ± 0.2
E	0.5 ± 0.3