

SMD CHIP INDUCTORS / AIGC Series

• Features

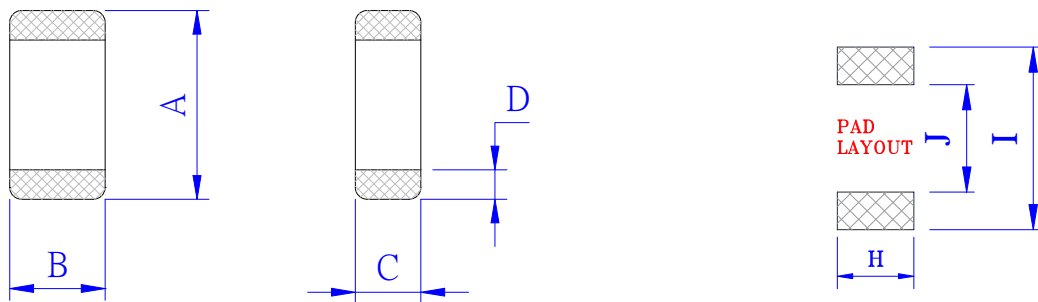
- 1.RoHS compliant
- 2.Small size
- 3.Low profile
- 4.High current
- 5.Magnetically shielded configuration allowing for high density mounting

• Applications

- 1.DC-DC converters
- 2.Power modules
- 3.Cellular phones
- 4.DSC,PND,DVD
- 5.Wireless card and other electronic devices

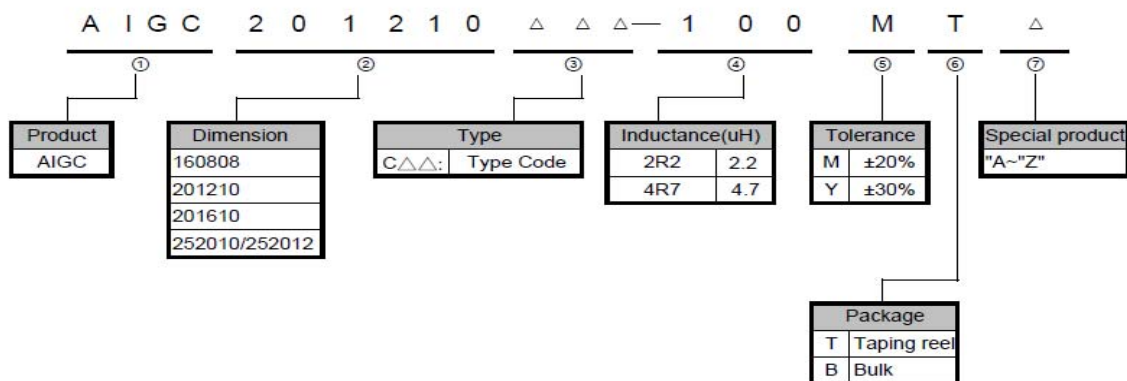


• Shape & Dimensions



TYPE	A (mm)	B (mm)	C (mm)	D (mm)	H (Ref.)	I (Ref.)	J (Ref.)
AIGC160808C	1.6 ± 0.15	0.8 ± 0.15	0.8 ± 0.15	0.3 ± 0.2	0.6~0.8	1.8~2.0	0.7~0.8
AIGC201210C	2.0 ± 0.2	1.25 ± 0.2	1.0 MAX.	0.5 ± 0.3	1.0~1.4	2.3~2.9	0.8~1.2
AIGC201610C	2.0 ± 0.2	1.6 ± 0.2	1.0 MAX.	0.5 ± 0.3	1.6~2.0	2.1~2.7	0.8~1.2
AIGC252010C	2.5 ± 0.2	2.0 ± 0.2	1.0 MAX.	0.6 ± 0.2	2.0~2.6	2.7~3.5	1.3~1.9
AIGC252012C	2.5 ± 0.2	2.0 ± 0.2	1.2 MAX.	0.6 ± 0.2	2.0~2.6	2.7~3.5	1.3~1.9

■ PRODUCT IDENTIFICATION



◆ AIGC160808C Series Specification :

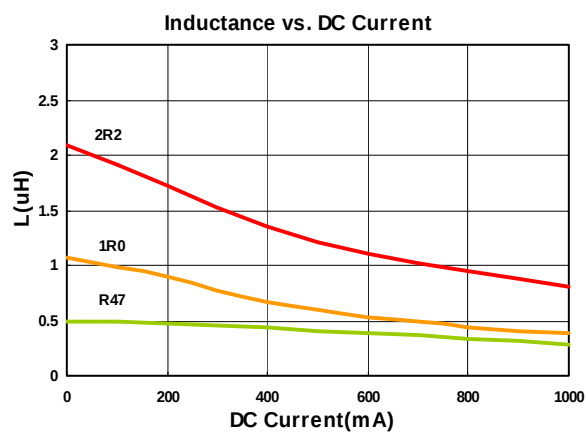
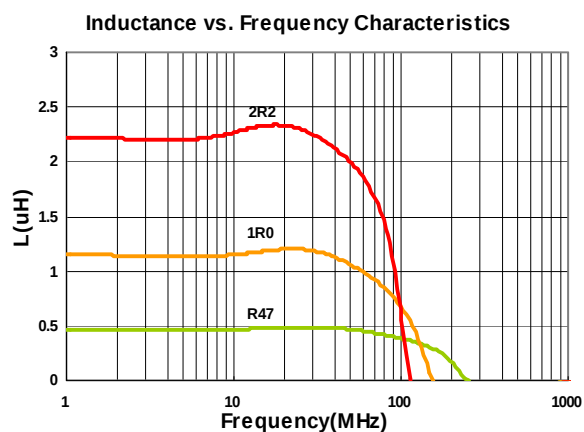
Part Number	Inductance (μH)	Inductance Tolerance	Test Freq. (MHz)	DCR (Ω) $\pm 30\%$	Saturation Current (mA) Max.	Temp. Rise current (mA) Max.
AIGC160808C-R47□T	0.47	M,Y	3	0.15	400	1100
AIGC160808C-1R0□T	1.0	M,Y	3	0.20	200	950
AIGC160808C-2R2□T	2.2	M,Y	3	0.30	150	750

NOTE :

* The operating temperature range is -55°C to $+125^{\circ}\text{C}$ (Including self-temperature rise)

* □ Tolerance M : $\pm 20\%$, Y : $\pm 30\%$

■ Electrical Characteristics



◆ AIGC201210C Series Specification :

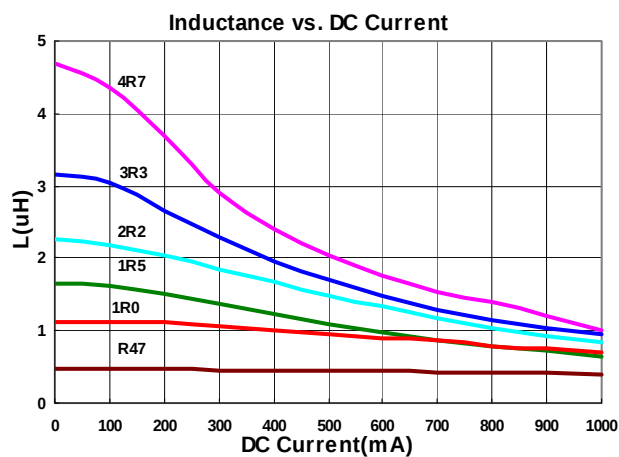
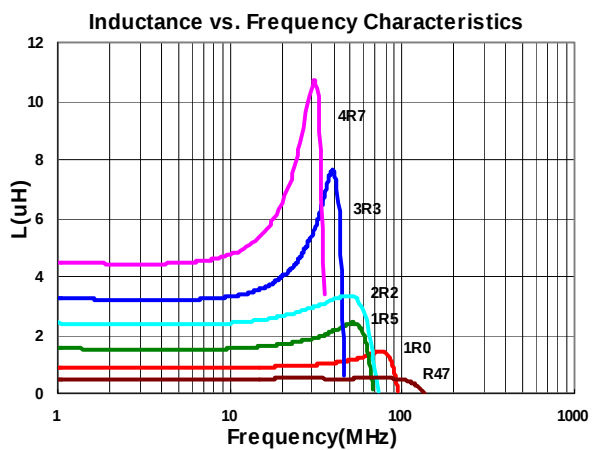
Part Number	Inductance (μ H)	Inductance Tolerance	Test Freq. (MHz)	DCR (Ω) $\pm$ 30%	Saturation Current (mA) Max.	Temp. Rise current (mA) Max.
AIGC201210C-R47□T	0.47	M,Y	3	0.09	1100	1300
AIGC201210C-1R0□T	1.0	M,Y	3	0.12	650	1200
AIGC201210C-1R5□T	1.5	M,Y	3	0.15	450	1100
AIGC201210C-2R2□T	2.2	M,Y	3	0.19	400	1100
AIGC201210C-3R3□T	3.3	M,Y	3	0.24	300	800
AIGC201210C-4R7□T	4.7	M,Y	3	0.26	200	700

NOTE :

* The operating temperature range is -55°C to +125°C (Including self-temperature rise)

* □ Tolerance M : $\pm$ 20% , Y : $\pm$ 30%

■ Electrical Characteristics



◆ AIGC201610C Series Specification :

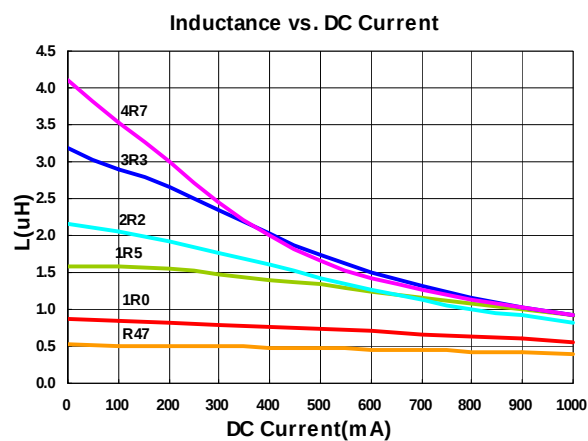
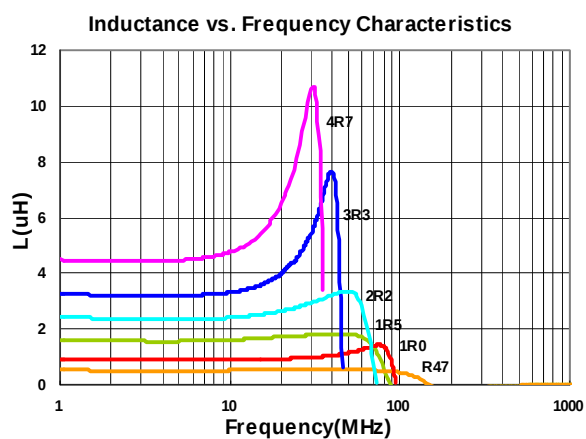
Part Number	Inductance (μ H)	Inductance Tolerance	Test Freq. (MHz)	DCR (Ω) $\pm 25\%$	Saturation Current (mA) Max.	Temp. Rise current (mA) Max.
AIGC201610C-R47□TA	0.47	M,Y	3	0.06	1200	1600
AIGC201610C-1R0□TA	1.0	M,Y	3	0.085	850	1300
AIGC201610C-1R5□TA	1.5	M,Y	3	0.11	600	1200
AIGC201610C-2R2□TA	2.2	M,Y	3	0.11	400	1200
AIGC201610C-3R3□TA	3.3	M,Y	3	0.12	350	850
AIGC201610C-4R7□TA	4.7	M,Y	3	0.14	200	1100

NOTE :

* The operating temperature range is -55°C to $+125^{\circ}\text{C}$ (Including self-temperature rise)

* □ Tolerance M : $\pm 20\%$, Y : $\pm 30\%$

■ Electrical Characteristics



◆ AIGC252010C Series Specification :

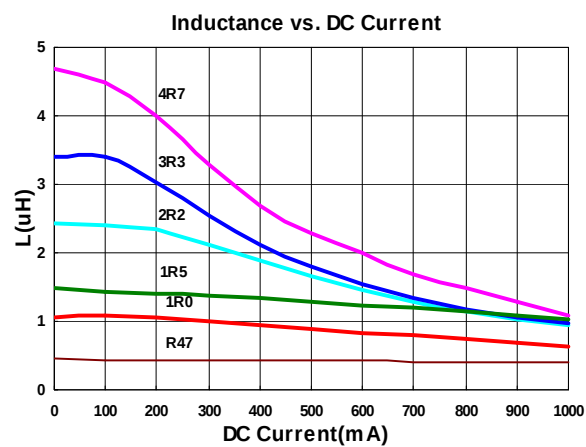
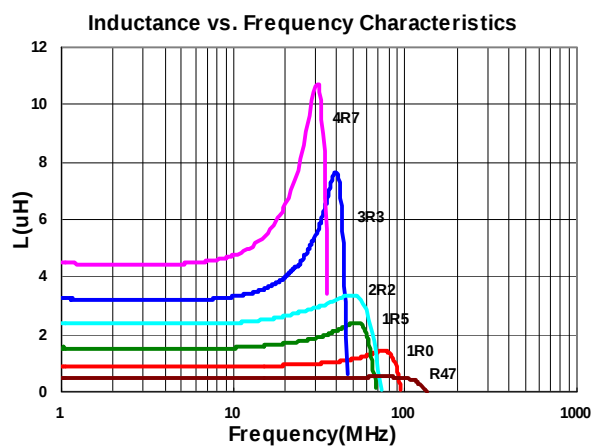
Part Number	Inductance (μ H)	Inductance Tolerance	Test Freq. (MHz)	DCR (Ω) $\pm$ 25%	Saturation Current (mA) Max.	Temp. Rise current (mA) Max.
AIGC252010C-R47□TA	0.47	M,Y	3	0.04	1500	1800
AIGC252010C-1R0□TA	1.0	M,Y	3	0.055	900	1600
AIGC252010C-1R5□T	1.5	M,Y	3	0.07 $\pm$ 30%	800	1400
AIGC252010C-2R2□TA	2.2	M,Y	3	0.08	500	1300
AIGC252010C-3R3□TA	3.3	M,Y	3	0.10	400	1200
AIGC252010C-4R7□TA	4.7	M,Y	3	0.11	300	1100

NOTE :

* The operating temperature range is -55°C to +125°C (Including self-temperature rise)

* □ Tolerance M : $\pm$ 20% , Y : $\pm$ 30%

■ Electrical Characteristics



◆ AIGC252012C Series Specification :

Part Number	Inductance (μH)	Inductance Tolerance	Test Freq. (MHz)	DCR (Ω) $\pm 30\%$	Saturation Current (mA) Max.	Temp. Rise current (mA) Max.
AIGC252012C-R47□T	0.47	M,Y	3	0.04	1500	1800
AIGC252012C-1R0□T	1.0	M,Y	3	0.05	950	1600
AIGC252012C-1R5□T	1.5	M,Y	3	0.07	900	1400
AIGC252012C-2R2□T	2.2	M,Y	3	0.10	700	1200
AIGC252012C-3R3□T	3.3	M,Y	3	0.12	500	1100
AIGC252012C-4R7□T	4.7	M,Y	3	0.14	350	1000
AIGC252012C-6R8□T	6.8	M,Y	3	0.16	250	900

NOTE :

* The operating temperature range is -55°C to $+125^{\circ}\text{C}$ (Including self-temperature rise)

* □ Tolerance M : $\pm 20\%$, Y : $\pm 30\%$

■ Electrical Characteristics

