SMD POWER INDUCTORS / AQH MF Type Series

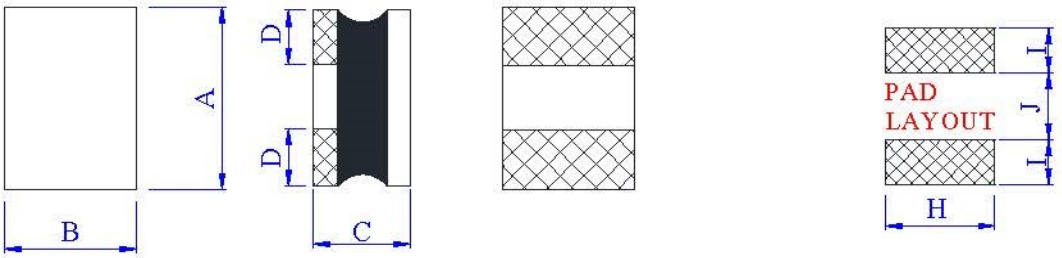
• Features

1.RoHS compliant
2.Low DC resistance and high current
3.Highly accurate dimensions
4.Superior EMI characteristics with ultra low radiation comparing to conventional shielded power inductors
5.Halongen free

• Applications

1.LCD Displays
2.Smart Phone
3.DSC
4.Tablet PC and other protable devices
5.DC/DC converters

• Shape & Dimensions



TYPE	A (mm)	B (mm)	C (mm)	D (mm)	H (Ref.)	I (Ref.)	J (Ref.)
AQH201612MF	2.0 ± 0.25	1.6 ± 0.25	1.2 ± 0.05	0.6 Typ.	1.8	0.80	0.8
AQH252010MF	2.5 ± 0.25	2.0 ± 0.25	1.0 MAX.	0.8 Typ.	2.2	0.85	0.8
AQH252012MF	2.5 ± 0.25	2.0 ± 0.25	1.2 ± 0.05	0.8 Typ.	2.2	0.85	0.8

■ PRODUCT IDENTIFICATION

A Q H — 2 5 2 0 1 0 △ △ △ — 1 0 0 — M — T — △

① Product: AQH

② Dimension: 201612; 252010/252012

③ Type: MF△: Type Code

④ Inductance(uH): 2R2 = 2.2; 100 = 10; 220 = 22

⑤ Tolerance: M = ±20%; Y = ±30%

⑥ Package: T = Taping reel; B = Bulk

⑦ Special product: "A~"Z"

◆ AQH201612MF Series Specification：

Part Number	Inductance (uH)	Inductance Tolerance	Test Freq. (MHz)	DCR (Ω)±30%	Saturation Current (A) Max.	Temp. Rise current (A) Max.
AQH201612MFR47□T	0.47	M,Y	1.0	0.051	2.43	2.07
AQH201612MFR68□T	0.68	M,Y	1.0	0.074	1.98	1.80
AQH201612MF1R5□T	1.5	M,Y	1.0	0.130	1.44	1.30
AQH201612MF6R8□T	6.8	M,Y	1.0	0.465	0.73	0.70

NOTE：

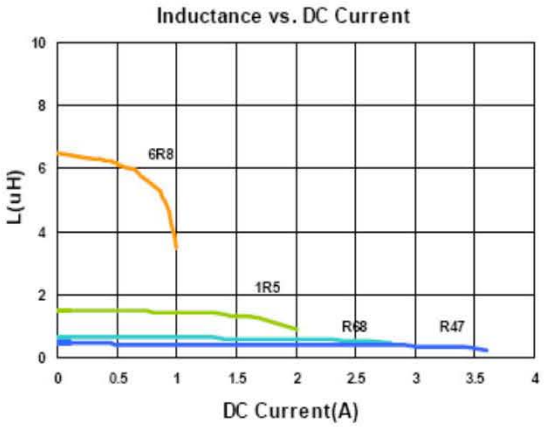
* The operating temperature range is -40℃ to +125℃(Including self-temperature rise)

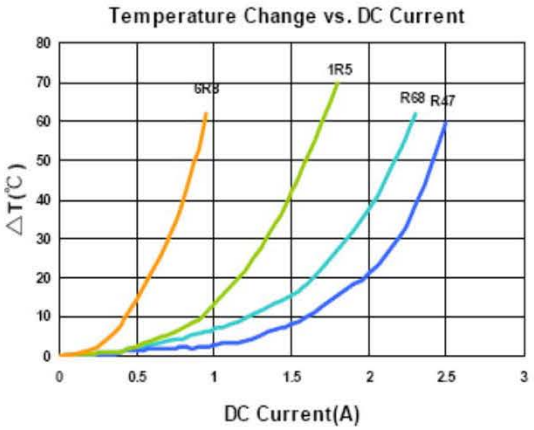
* □ Tolerance M：±20%，Y：±30%

*Isat:For Inductance drop 30% from its value without current.

*Irms:The value of D.C current when the temperature rise is △T≦40℃.(Ta=25℃)

■ Electrical Characteristics





◆ AQH252010MF Series Specification：

Part Number	Inductance (uH)	Inductance Tolerance	Test Freq. (MHz)	DCR (Ω)±30%	Saturation Current (A) Max.	Temp. Rise current (A) Max.
AQH252010MFR47□T	0.47	M,Y	1.0	0.045	2.52	2.07
AQH252010MF1R0□T	1.0	M,Y	1.0	0.066	1.78	1.84
AQH252010MF1R5□T	1.5	M,Y	1.0	0.095	1.53	1.66
AQH252010MF4R7□T	4.7	M,Y	1.0	0.285	0.82	0.85
AQH252010MF100□T	10	M,Y	1.0	0.535	0.54	0.63
AQH252010MF150□T	15	M,Y	1.0	0.810	0.45	0.49
AQH252010MF220□T	22	M,Y	1.0	1.200	0.36	0.39

NOTE：

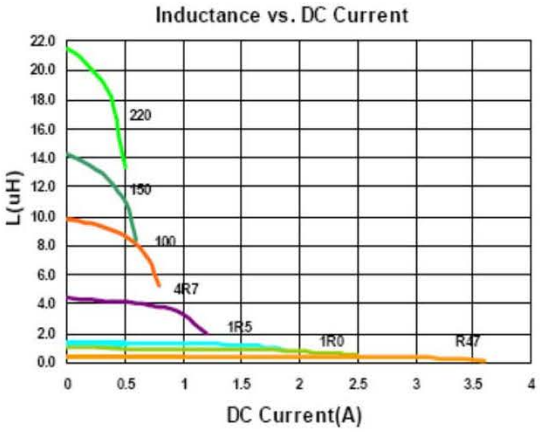
* The operating temperature range is -40℃ to +125℃(Including self-temperature rise)

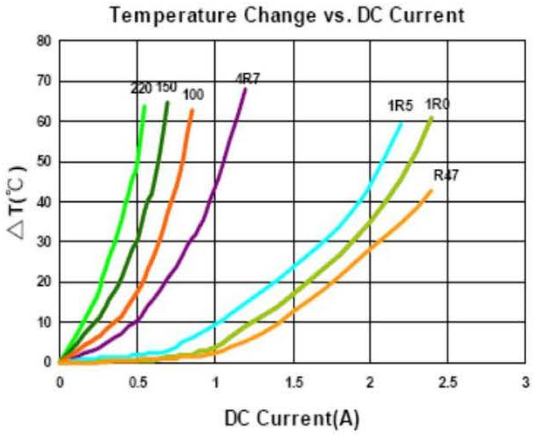
* □ Tolerance M：±20%，Y：±30%

*Isat:For Inductance drop 30% from its value without current.

*Irms:The value of D.C current when the temperature rise is △T≦40℃.(Ta=25℃)

■ Electrical Characteristics





◆ AQH252012MF Series Specification：

Part Number	Inductance (uH)	Inductance Tolerance	Test Freq. (MHz)	DCR (Ω)±30%	Saturation Current (A) Max.	Temp. Rise current (A) Max.
AQH252012MFR50□T	0.5	M,Y	1.0	0.028	3.15	2.70
AQH252012MF1R0□T	1.0	M,Y	1.0	0.050	2.25	2.16
AQH252012MF1R2□T	1.2	M,Y	1.0	0.053	1.89	2.11
AQH252012MF1R5□T	1.5	M,Y	1.0	0.068	1.75	2.07
AQH252012MF2R2□T	2.2	M,Y	1.0	0.080	1.62	1.62
AQH252012MF3R3□T	3.3	M,Y	1.0	0.130	1.30	1.35
AQH252012MF4R7□T	4.7	M,Y	1.0	0.190	0.99	0.99
AQH252012MF5R6□T	5.6	M,Y	1.0	0.210	0.94	0.90
AQH252012MF6R8□T	6.8	M,Y	1.0	0.300	0.85	0.72
AQH252012MF100□T	10	M,Y	1.0	0.385	0.79	0.63
AQH252012MF150□T	15	M,Y	1.0	0.570	0.61	0.55
AQH252012MF220□T	22	M,Y	1.0	0.810	0.49	0.47

NOTE：

* The operating temperature range is -40℃ to +125℃(Including self-temperature rise)

* □ Tolerance M：±20%，Y：±30%

*Isat:For Inductance drop 30% from its value without current.

*Irms:The value of D.C current when the temperature rise is △T≦40℃.(Ta=25℃)

■ Electrical Characteristics