

SMD CHIP INDUCTORS / AIG Series

• Features

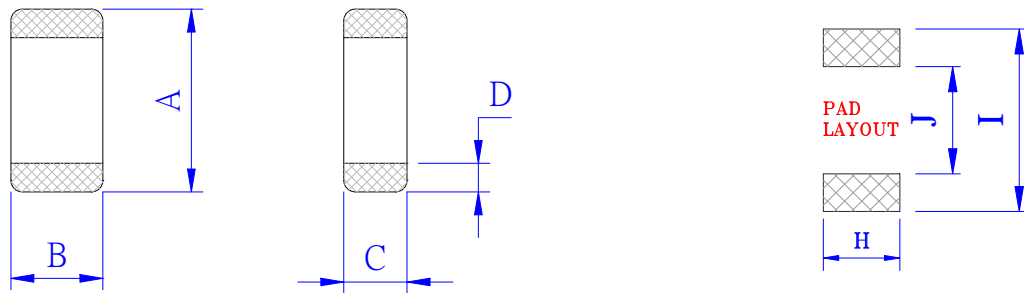
Two functional areas include resonant circuits and chokes require use of an inductor.

• Applications

RF and wireless communication, information technology equipment which includes computer, telecommunications, radar detectors, automotive electronics, cellular phones, pagers, audio equipment, PDAs, keyless remote system and low-voltage power supply modules.



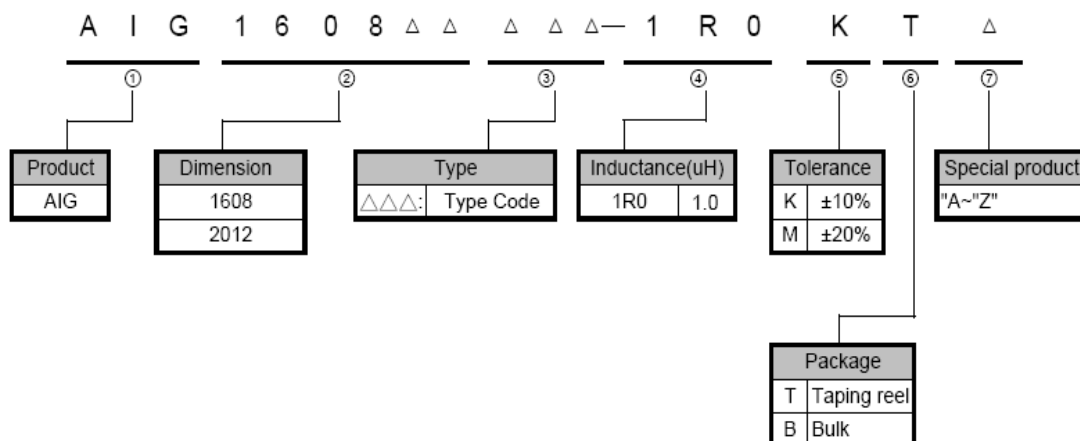
• Shape & Dimensions



TYPE	A (mm)	B (mm)	C (mm)	D (mm)	H (Ref.)	I (Ref.)	J (Ref.)
AIG1608	1.6 ± 0.2	0.8 ± 0.2	0.8 ± 0.2	0.3 ± 0.2	0.6~0.8	1.8~2.0	0.7~0.8
AIG2012	2.0 ± 0.2	1.25 ± 0.2	*1 0.9 ± 0.2	0.5 ± 0.3	1.0~1.2	2.6~4.0	1.0~1.2
AIG2012	2.0 ± 0.2	1.25 ± 0.2	*2 1.25 ± 0.2	0.5 ± 0.3	1.0~1.2	2.6~4.0	1.0~1.2

*1) 47N~2R2=0.9±0.2 *2) 2R7~100=1.25±0.2

■ PRODUCT IDENTIFICATION



◆ AIG1608 Series Specification :

Part Number	Inductance (μ H)	Q Min.	Test Freq. (MHz)	SRF (MHz)	DCR (Ω) Max.	Rated Current (mA) Max.
AIG1608-47N□T	0.047	10	50	260	0.30	50
AIG1608-68N□T	0.068	10	50	250	0.30	50
AIG1608-R10□T	0.10	15	25	240	0.50	50
AIG1608-R12□T	0.12	15	25	205	0.50	50
AIG1608-R15□T	0.15	15	25	180	0.60	50
AIG1608-R18□T	0.18	15	25	165	0.60	50
AIG1608-R22□T	0.22	15	25	150	0.80	50
AIG1608-R27□T	0.27	15	25	136	0.80	50
AIG1608-R33□T	0.33	15	25	125	0.85	35
AIG1608-R39□T	0.39	15	25	110	1.00	35
AIG1608-R47□T	0.47	15	25	105	1.35	35
AIG1608-R56□T	0.56	15	25	95	1.55	35
AIG1608-R68□T	0.68	15	25	90	1.70	35
AIG1608-R82□T	0.82	15	25	85	2.10	35
AIG1608-1R0□T	1.0	35	10	75	0.60	25
AIG1608-1R2□T	1.2	35	10	65	0.80	25
AIG1608-1R5□T	1.5	35	10	60	0.80	25
AIG1608-1R8□T	1.8	35	10	55	0.95	25
AIG1608-2R2□T	2.2	35	10	50	1.15	15
AIG1608-2R7□T	2.7	35	10	45	1.35	15
AIG1608-3R3□T	3.3	35	10	40	1.55	15
AIG1608-3R9□T	3.9	35	10	35	1.70	15
AIG1608-4R7□T	4.7	35	10	33	2.10	15
AIG1608-5R6□T	5.6	35	4	22	1.55	5
AIG1608-6R8□T	6.8	35	4	20	1.70	5
AIG1608-8R2□T	8.2	35	4	18	2.10	5
AIG1608-100□T	10	30	2	17	1.85	3

NOTE :

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

* □ Tolerance K : $\pm 10\%$, M : $\pm 20\%$

◆ AIG2012 Series Specification :

Part Number	Inductance (μ H)	Q Min.	Test Freq. (MHz)	SRF (MHz)	DCR (Ω) Max.	Rated Current (mA) Max.
AIG2012-47N□T	0.047	15	50	320	0.20	300
AIG2012-68N□T	0.068	15	50	280	0.20	300
AIG2012-R10□T	0.10	20	25	235	0.30	250
AIG2012-R12□T	0.12	20	25	220	0.30	250
AIG2012-R15□T	0.15	20	25	200	0.40	250
AIG2012-R18□T	0.18	20	25	185	0.40	250
AIG2012-R22□T	0.22	20	25	170	0.50	250
AIG2012-R27□T	0.27	20	25	150	0.50	250
AIG2012-R33□T	0.33	20	25	145	0.55	250
AIG2012-R39□T	0.39	25	25	135	0.65	200
AIG2012-R47□T	0.47	25	25	125	0.65	200
AIG2012-R56□T	0.56	25	25	115	0.75	150
AIG2012-R68□T	0.68	25	25	105	0.80	150
AIG2012-R82□T	0.82	25	25	100	1.00	150
AIG2012-1R0□T	1.0	45	10	75	0.40	50
AIG2012-1R2□T	1.2	45	10	65	0.50	50
AIG2012-1R5□T	1.5	45	10	60	0.50	50
AIG2012-1R8□T	1.8	45	10	55	0.60	50
AIG2012-2R2□T	2.2	45	10	50	0.65	30
AIG2012-2R7□T	2.7	45	10	45	0.75	30
AIG2012-3R3□T	3.3	45	10	41	0.80	30
AIG2012-3R9□T	3.9	45	10	38	0.90	30
AIG2012-4R7□T	4.7	45	10	35	1.00	30
AIG2012-5R6□T	5.6	50	4	32	0.90	15
AIG2012-6R8□T	6.8	50	4	29	1.00	15
AIG2012-8R2□T	8.2	50	4	26	1.10	15
AIG2012-100□T	10	50	2	24	1.15	15

NOTE :

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

* □ Tolerance K : $\pm 10\%$, M : $\pm 20\%$