

SMD CHIP INDUCTORS / AIF L Series

• Features

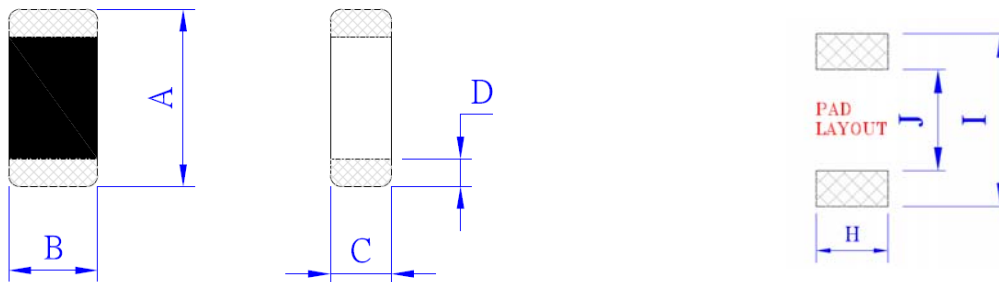
1. Excellent Q factor and SRF characteristics
2. Small size of 1005/1608 is suitable for small portable equipment.
3. Supports operating frequency bands up to 6GHz with nominal inductance values from 1.0nH To 470nH.

• Applications

1. RF Resonance and Impedance Matching Circuit
2. RF and wireless communication
3. Information technology equipments, computers, telecommunications, radar detectors, automotive electronics, cellular phones, pagers, PDAs, keyless remote systems.
4. Use in L-C filter configurations

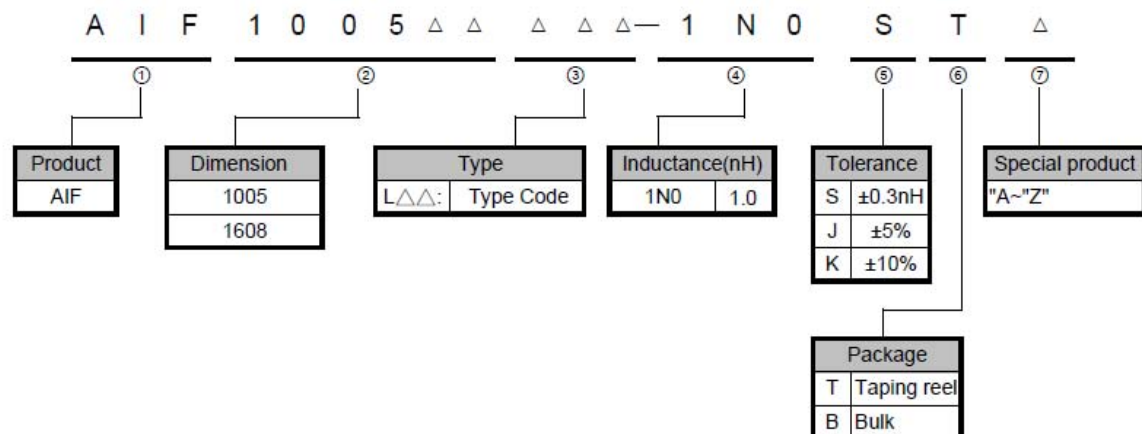


• Shape & Dimensions



TYPE	A (mm)	B (mm)	C (mm)	D (mm)	H (Ref.)	I (Ref.)	J (Ref.)
AIF1005L	1.0 ± 0.1	0.5 ± 0.1	0.5 ± 0.1	0.25 ± 0.1	0.5	1.2~1.4	0.4
AIF1608L	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

■ PRODUCT IDENTIFICATION



◆AIF1005L Series Specification :

Part Number	Inductance (nH)	Inductance Tolerance	Q Min.	Test Freq. (MHz)	SRF (MHz)Typ.	DCR (Ω) Max.	IDC (mA) Max.
AIF1005L-1N0□TS	1.0	S	8	100	10000	0.07	400
AIF1005L-1N2□TS	1.2	S	8	100	10000	0.09	400
AIF1005L-1N5□TS	1.5	S	8	100	9000	0.10	400
AIF1005L-1N8□TS	1.8	S	8	100	8700	0.10	400
AIF1005L-2N0□TS	2.0	S	8	100	8100	0.10	400
AIF1005L-2N2□TS	2.2	S	8	100	8100	0.12	400
AIF1005L-2N4□TS	2.4	S	8	100	7700	0.15	400
AIF1005L-2N7□TS	2.7	S	8	100	7700	0.15	400
AIF1005L-3N0□TS	3.0	S	8	100	6300	0.15	400
AIF1005L-3N3□TS	3.3	S , K	8	100	6300	0.15	400
AIF1005L-3N6□TS	3.6	S , K	8	100	6100	0.15	400
AIF1005L-3N9□TS	3.9	S , K	8	100	6100	0.18	400
AIF1005L-4N3□TS	4.3	S , K	8	100	6000	0.18	400
AIF1005L-4N7□TS	4.7	S , K	8	100	6000	0.18	400
AIF1005L-5N6□TS	5.6	S , K	8	100	5100	0.20	400
AIF1005L-6N8□TS	6.8	J , K	8	100	4550	0.24	400
AIF1005L-8N2□TS	8.2	J , K	8	100	4100	0.24	300
AIF1005L-10N□TS	10	J , K	8	100	3900	0.26	300
AIF1005L-12N□TS	12	J , K	8	100	3000	0.40	300
AIF1005L-15N□TS	15	J , K	8	100	2800	0.50	300
AIF1005L-18N□TS	18	J , K	8	100	2500	0.55	300
AIF1005L-22N□TS	22	J , K	8	100	2200	0.70	300
AIF1005L-27N□TS	27	J , K	8	100	2000	0.80	300
AIF1005L-33N□TS	33	J , K	8	100	1800	0.90	200
AIF1005L-39N□TS	39	J , K	8	100	1600	1.00	150
AIF1005L-47N□TS	47	J , K	8	100	1400	1.20	150
AIF1005L-56N□TS	56	J , K	8	100	1300	1.30	150
AIF1005L-68N□TS	68	J , K	8	100	1100	1.50	100
AIF1005L-82N□TS	82	J , K	8	100	1000	1.60	100
AIF1005L-R10□TS	100	J , K	8	100	900	2.00	100

NOTE :

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

* □ Tolerance S : $\pm 0.3\text{nH}$, J : $\pm 5\%$, K : $\pm 10\%$

◆ AIF1608L Series Specification :

Part Number	Inductance (nH)	Inductance Tolerance	Q Min.	Test Freq. (MHz)	SRF (MHz)Typ.	DCR (Ω) Max.	IDC (mA) Max.
AIF1608L-1N0□TS	1.0	S	8	100	10000	0.10	600
AIF1608L-1N2□TS	1.2	S	8	100	10000	0.10	600
AIF1608L-1N5□TS	1.5	S	8	100	8000	0.10	600
AIF1608L-1N8□TS	1.8	S	8	100	8000	0.10	600
AIF1608L-2N2□TS	2.2	S	8	100	7200	0.10	600
AIF1608L-2N7□TS	2.7	S	10	100	6200	0.10	600
AIF1608L-3N0□TS	3.0	S	10	100	5200	0.12	600
AIF1608L-3N3□TS	3.3	S , K	10	100	5200	0.12	600
AIF1608L-3N9□TS	3.9	S , K	10	100	5000	0.14	600
AIF1608L-4N7□TS	4.7	S , K	10	100	4750	0.16	600
AIF1608L-5N6□TS	5.6	S , K	10	100	4100	0.18	600
AIF1608L-6N8□TS	6.8	J , K	10	100	3750	0.22	600
AIF1608L-8N2□TS	8.2	J , K	10	100	3300	0.24	600
AIF1608L-10N□TS	10	J , K	12	100	3000	0.26	600
AIF1608L-12N□TS	12	J , K	12	100	2600	0.28	600
AIF1608L-15N□TS	15	J , K	12	100	2500	0.32	600
AIF1608L-18N□TS	18	J , K	12	100	2400	0.35	600
AIF1608L-22N□TS	22	J , K	12	100	2000	0.40	500
AIF1608L-27N□TS	27	J , K	12	100	1900	0.45	500
AIF1608L-33N□TS	33	J , K	12	100	1600	0.55	400
AIF1608L-39N□TS	39	J , K	12	100	1400	0.60	400
AIF1608L-47N□TS	47	J , K	12	100	1300	0.70	400
AIF1608L-56N□TS	56	J , K	12	100	1100	0.75	400
AIF1608L-62N□TS	62	J , K	12	100	1050	0.85	400
AIF1608L-68N□TS	68	J , K	12	100	1050	0.85	400
AIF1608L-82N□TS	82	J , K	12	100	900	1.00	300
AIF1608L-R10□TS	100	J , K	12	100	770	1.20	300
AIF1608L-R12□TS	120	J , K	8	50	650	1.30	300
AIF1608L-R15□TS	150	J , K	8	50	550	1.70	250
AIF1608L-R18□TS	180	J , K	8	50	520	1.90	250
AIF1608L-R22□TS	220	J , K	8	50	500	2.00	250
AIF1608L-R27□TS	270	J , K	8	50	470	2.20	150
AIF1608L-R33□TS	330	J , K	8	50	320	2.80	100
AIF1608L-R39□TS	390	J , K	8	50	300	3.00	100

NOTE :

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

* □ Tolerance S : $\pm 0.3\text{nH}$, J : $\pm 5\%$, K : $\pm 10\%$