

RF Inductors / AIF_H Series

Features

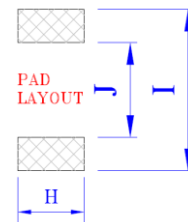
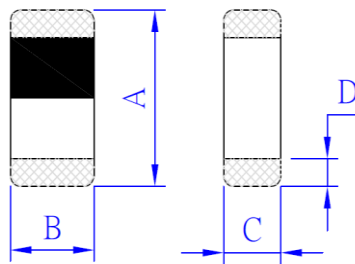
- Excellent Q factor and SRF characteristics.
- Small size of 1005 is suitable for small portable equipment.
- Supports operating frequency bands up to 6 GHz with nominal inductance values from 1.0 nH To 270 nH.

Applications

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

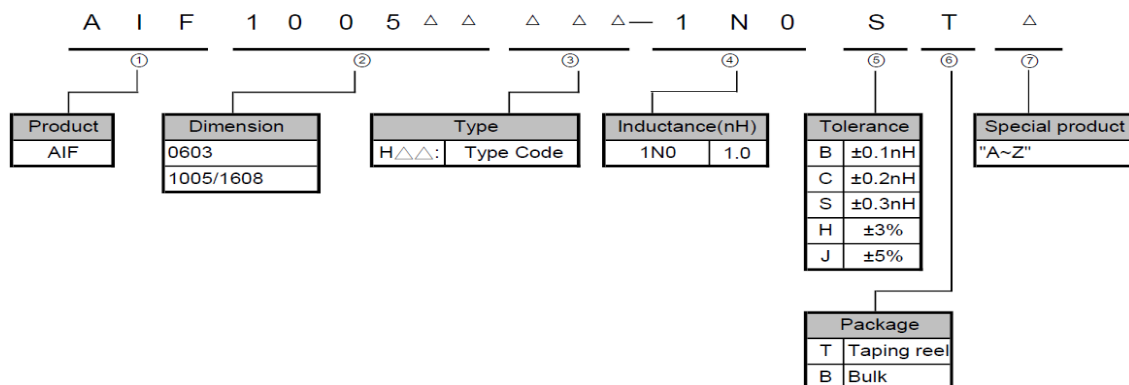


● Shape & Dimensions



TYPE	A (mm)	B (mm)	C (mm)	D (mm)	H (Ref.)	I (Ref.)	J (Ref.)
AIF0603H	0.6 ± 0.03	0.3 ± 0.03	0.3 ± 0.03	0.1~0.2	0.3	0.75~1.05	0.3
AIF1005H	1.0 ± 0.10	0.5 ± 0.05	0.5 ± 0.05	0.1~0.3	0.5	1.2~1.4	0.4
AIF1608H	1.6 ± 0.15	0.8 ± 0.15	0.8 ± 0.15	0.2~0.6	0.6~0.8	1.8~2.0	0.7~0.8

■ PRODUCT IDENTIFICATION



◆AIF0603H Series Specification :

Part Number	Inductance (nH)	Inductance Tolerance	Q Min.	Test Freq. (MHz)	SRF (MHz)Min.	DCR (Ω) Max.	IDC (mA) Max.
AIF0603H-0N3□T	0.3	B , C , S	-	500	18000	0.08	850
AIF0603H-0N6□T	0.6	B , C , S	14	500	10000	0.07	850
AIF0603H-0N7□T	0.7	B , C , S	14	500	10000	0.08	800
AIF0603H-0N8□T	0.8	B , C , S	14	500	10000	0.08	800
AIF0603H-1N0□T	1.0	B , C , S	14	500	10000	0.10	750
AIF0603H-1N1□T	1.1	B , C , S	14	500	10000	0.10	750
AIF0603H-1N2□T	1.2	B , C , S	14	500	10000	0.10	750
AIF0603H-1N3□T	1.3	B , C , S	14	500	10000	0.15	650
AIF0603H-1N4□T	1.4	B , C , S	14	500	10000	0.15	650
AIF0603H-1N5□T	1.5	B , C , S	14	500	10000	0.15	600
AIF0603H-1N6□T	1.6	B , C , S	14	500	10000	0.15	600
AIF0603H-1N7□T	1.7	B , C , S	14	500	15000	0.15	600
AIF0603H-1N8□T	1.8	B , C , S	14	500	10000	0.15	600
AIF0603H-1N9□T	1.9	B , C , S	14	500	12500	0.15	600
AIF0603H-2N0□T	2.0	B , C , S	14	500	10000	0.15	600
AIF0603H-2N2□T	2.2	B , C , S	14	500	10000	0.15	600
AIF0603H-2N3□T	2.3	B , C , S	14	500	8800	0.20	500
AIF0603H-2N4□T	2.4	B , C , S	14	500	8300	0.20	500
AIF0603H-2N5□T	2.5	B , C , S	14	500	7700	0.20	500
AIF0603H-2N6□T	2.6	B , C , S	14	500	7700	0.20	500
AIF0603H-2N7□T	2.7	B , C , S	14	500	7700	0.20	500
AIF0603H-3N0□T	3.0	B , C , S	14	500	7200	0.25	400
AIF0603H-3N2□T	3.2	B , C , S	14	500	6700	0.25	450
AIF0603H-3N3□T	3.3	B , C , S	14	500	6700	0.25	400
AIF0603H-3N6□T	3.6	B , C , S	14	500	6400	0.30	400
AIF0603H-3N7□T	3.7	B , C , S	14	500	6400	0.30	400
AIF0603H-3N9□T	3.9	B , C , S	14	500	6000	0.30	400
AIF0603H-4N0□T	4.0	B , C , S	14	500	6000	0.40	350
AIF0603H-4N2□T	4.2	B , C , S	14	500	5100	0.40	350
AIF0603H-4N3□T	4.3	B , C , S	14	500	5100	0.40	350
AIF0603H-4N7□T	4.7	B , C , S	14	500	5300	0.40	350
AIF0603H-5N1□T	5.1	B , C , S	14	500	5000	0.40	350
AIF0603H-5N6□T	5.6	B , C , S	14	500	4600	0.40	350
AIF0603H-6N2□T	6.2	J , K	14	500	4200	0.60	300
AIF0603H-6N8□T	6.8	J , K	14	500	3900	0.60	300
AIF0603H-7N5□T	7.5	J , K	14	500	3600	0.60	300
AIF0603H-8N2□T	8.2	J , K	14	500	3400	0.70	250
AIF0603H-9N1□T	9.1	J , K	14	500	3300	0.70	250
AIF0603H-10N□T	10	J , K	14	500	3200	0.70	250
AIF0603H-12N□T	12	J , K	12	500	2700	0.70	250
AIF0603H-13N□T	13	J , K	12	500	2700	0.80	250
AIF0603H-15N□T	15	J , K	12	500	2300	0.70	250
AIF0603H-18N□T	18	J , K	12	500	2100	0.80	200

AIF0603H-20N□T	20	J , K	12	500	1900	2.30	150
AIF0603H-22N□T	22	J , K	12	500	1800	1.90	150
AIF0603H-24N□T	24	J , K	12	500	1800	2.30	140
AIF0603H-27N□T	27	J , K	12	500	1800	2.30	140

NOTE :

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

* □ Tolerance B : $\pm 0.1\text{nH}$, C : $\pm 0.2\text{nH}$, S : $\pm 0.3\text{nH}$, J : $\pm 5\%$, K : $\pm 10\%$

◆AIF1005H Series Specification :

Part Number	Inductance (nH)	Inductance Tolerance	Q Min.	Test Freq. (MHz)	SRF (GHz)Min.	DCR (Ω) Max.	IDC (mA) Max.
AIF1005H-1N0□T	1.0	S	8	100	8.0	0.10	300
AIF1005H-1N2□T	1.2	S	8	100	8.0	0.10	300
AIF1005H-1N5□T	1.5	S	8	100	8.0	0.10	300
AIF1005H-1N8□T	1.8	S	8	100	6.0	0.10	300
AIF1005H-2N0□T	2.0	S	8	100	6.0	0.12	300
AIF1005H-2N2□T	2.2	S	8	100	6.0	0.15	300
AIF1005H-2N4□T	2.4	S	8	100	6.0	0.16	300
AIF1005H-2N7□T	2.7	S	8	100	6.0	0.17	300
AIF1005H-3N0□T	3.0	S	8	100	6.0	0.18	300
AIF1005H-3N3□T	3.3	S	8	100	6.0	0.19	300
AIF1005H-3N6□T	3.6	S	8	100	6.0	0.19	300
AIF1005H-3N9□T	3.9	S	8	100	6.0	0.19	300
AIF1005H-4N3□T	4.3	S	8	100	4.0	0.21	300
AIF1005H-4N7□T	4.7	S	8	100	6.0	0.23	300
AIF1005H-5N1□T	5.1	S	8	100	6.0	0.24	300
AIF1005H-5N6□T	5.6	S	8	100	5.3	0.26	300
AIF1005H-6N2□T	6.2	S	8	100	4.3	0.27	300
AIF1005H-6N8□T	6.8	J	8	100	4.2	0.29	300
AIF1005H-7N5□T	7.5	J	8	100	4.2	0.31	300
AIF1005H-8N2□T	8.2	J	8	100	3.6	0.33	300
AIF1005H-9N1□T	9.1	J	8	100	3.4	0.34	300
AIF1005H-10N□T	10	J	8	100	3.2	0.35	300
AIF1005H-12N□T	12	J	8	100	2.8	0.41	300
AIF1005H-15N□T	15	J	8	100	2.3	0.46	300
AIF1005H-18N□T	18	J	8	100	2.1	0.51	300
AIF1005H-22N□T	22	J	8	100	1.8	0.58	300
AIF1005H-27N□T	27	J	8	100	1.6	0.67	300
AIF1005H-33N□T	33	J	8	100	1.5	0.67	200
AIF1005H-39N□T	39	J	8	100	1.2	1.06	200
AIF1005H-47N□T	47	J	8	100	1.0	1.15	200
AIF1005H-56N□T	56	J	8	100	0.8	1.20	200
AIF1005H-68N□T	68	J	8	100	0.8	1.25	180
AIF1005H-82N□T	82	J	8	100	0.6	1.60	150
AIF1005H-R10□T	100	J	8	100	0.6	1.60	150
AIF1005H-R12□T	120	J	8	100	0.6	1.60	150
AIF1005H-R15□T	150	J	8	100	0.5	2.99	140
AIF1005H-R18□T	180	J	8	100	0.5	3.38	150
AIF1005H-R22□T	220	J	8	100	0.5	3.77	120
AIF1005H-R27□T	270	J	8	100	0.4	4.90	110

NOTE :

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

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

◆AIF1608H Series Specification :

Part Number	Inductance (nH)	Inductance Tolerance	Q Min.	Test Freq. (MHz)	SRF (GHz)Min.	DCR (Ω) Max.	IDC (mA) Max.
AIF1608H-1N0□T	1.0	S	8	100	10.00	0.05	300
AIF1608H-1N2□T	1.2	S	8	100	10.00	0.05	300
AIF1608H-1N5□T	1.5	S	8	100	6.00	0.10	300
AIF1608H-1N8□T	1.8	S	8	100	6.00	0.10	300
AIF1608H-2N2□T	2.2	S	8	100	6.00	0.10	300
AIF1608H-2N7□T	2.7	S	10	100	6.00	0.10	300
AIF1608H-3N3□T	3.3	S	10	100	6.00	0.12	300
AIF1608H-3N9□T	3.9	S	10	100	6.00	0.14	300
AIF1608H-4N7□T	4.7	S	10	100	4.00	0.16	300
AIF1608H-5N6□T	5.6	S	10	100	4.00	0.18	300
AIF1608H-6N8□T	6.8	J	10	100	4.00	0.22	300
AIF1608H-8N2□T	8.2	J	10	100	3.50	0.24	300
AIF1608H-10N□T	10	J	12	100	3.40	0.26	300
AIF1608H-12N□T	12	J	12	100	2.60	0.28	300
AIF1608H-15N□T	15	J	12	100	2.30	0.32	300
AIF1608H-18N□T	18	J	12	100	2.00	0.35	300
AIF1608H-22N□T	22	J	12	100	1.60	0.40	300
AIF1608H-27N□T	27	J	12	100	1.40	0.45	300
AIF1608H-33N□T	33	J	12	100	1.20	0.55	300
AIF1608H-39N□T	39	J	12	100	1.10	0.60	300
AIF1608H-47N□T	47	J	12	100	0.90	0.70	300
AIF1608H-56N□T	56	J	12	100	0.90	0.75	300
AIF1608H-68N□T	68	J	12	100	0.70	0.85	300
AIF1608H-82N□T	82	J	12	100	0.60	0.95	300
AIF1608H-R10□T	100	J	12	100	0.60	1.00	300
AIF1608H-R12□T	120	J	8	100	0.50	1.20	300
AIF1608H-R15□T	150	J	8	100	0.50	1.20	300
AIF1608H-R18□T	180	J	8	100	0.40	1.30	300
AIF1608H-R22□T	220	J	8	100	0.40	1.50	300
AIF1608H-R27□T	270	J	8	100	0.40	1.90	300
AIF1608H-R33□T	330	J	8	100	0.35	2.10	300
AIF1608H-R39□T	390	J	8	100	0.35	2.30	150
AIF1608H-R47□T	470	J	8	100	0.30	2.60	150

NOTE :

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

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