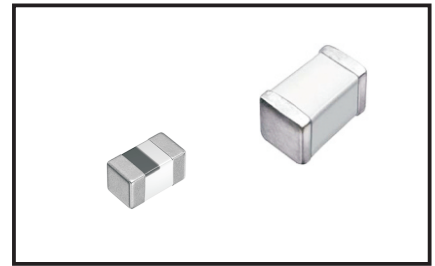


■ 車規疊層片式高頻電感

AUTOMOTIVE GRADE MULTILAYER CHIP RF INDUCTOR

OPERATING TEMP.	1005 : -55~+125℃
	1608 : -40~+85℃



● 特征 FEATURES

- 高自諧振頻率。
- 疊層獨石結構，具有高可靠性。
- 優良的焊接性和耐焊性，適合于回流焊。
- 通過AEC-Q200復合性測試。
- High self-resonant frequency.
- Multilayer monolithic construction yields high reliability
- Excellent solderability and heat resistance for reflow soldering.
- Pass AEC-Q200 compliance test.

● 應用 APPLICATIONS

- 汽車多媒體和無線連接系統、車身與舒適系統。
- Automotive multimedia, wireless connection system and body comfort system.

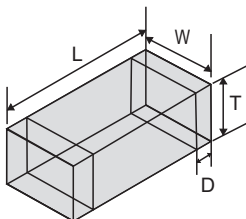
● 產品規格型號的表示方法 ORDERING CODE

$\frac{AHF}{①}$ $\frac{100505}{②}$ $\frac{HQ}{③}$ $\frac{3N3}{④}$ $\frac{S}{⑤}$ $\frac{T}{⑥}$

① 產品代號 Product Code		② 規格尺寸(L×W×T) (mm) Dimensions		③ 材料代號 Material Code	④ 感量(nH) Inductance		⑤ 公差 Tolerance		⑥ 包裝方式 Packaging Style		
AHF	車規疊層片式高頻電感 Automotive Grade Multilayer Chip High Frequency Inductor	100505 160808	1.0×0.5×0.5 1.6×0.8×0.8	H HQ	1N0 10N R10	1.0 10 100	B ±0.1nH C ±0.2nH S ±0.3nH G ±2% H ±3% J ±5%	T	卷帶盤裝 Tape&Reel	B	散裝 Bulk
					N=0.0(nH) R=0.0(μH)						

● 外形尺寸 SHAPE AND DIMENSIONS

unit: mm(inch)



Part No.	L	W	T	D
100505 (0402)	1.0±0.05 (0.040±0.002)	0.5±0.05 (0.020±0.002)	0.5±0.05 (0.020±0.002)	0.25±0.10 (0.010±0.004)
160808 (0603)	1.6±0.15 (0.063±0.006)	0.8±0.15 (0.031±0.006)	0.8±0.15 (0.031±0.006)	0.3±0.2 (0.01±0.008)

車規疊層片式高頻電感

AUTOMOTIVE GRADE MULTILAYER CHIP RF INDUCTOR

• 電性能參數 ELECTRICAL CHARACTERISTICS

1005 TYPE $L_s < 6.8\text{nH}$, □請選擇 “B/C/S” 級, $L_s \geq 6.8\text{nH}$, □請選擇 “G/H/J” 級。
 For $L_s < 6.8\text{nH}$, □choose “B/C/S”, For $L_s \geq 6.8\text{nH}$, □choose “G/H/J” .

型號 Part No.	電感量 Inductance (nH)	品質因數 Q (Min)	測試頻率 Test Fre. (MHz)	品質因數 測試頻率 Q Frequency (MHz)					自諧振頻率 SRF (MHz)Min	直流電阻 DC R (Ω)Max	額定電流 I _r (mA) Max
				500	800	1800	2000	2400			
AHF100505HQ1N0□T	1.0	8	100	22	30	48	50	58	10000	0.06	1000
AHF100505HQ1N1□T	1.1	8	100	23	29	47	50	57	10000	0.07	1000
AHF100505HQ1N2□T	1.2	8	100	23	29	48	50	56	10000	0.07	1000
AHF100505HQ1N3□T	1.3	8	100	22	29	44	47	53	10000	0.07	1000
AHF100505HQ1N5□T	1.5	8	100	23	29	47	50	56	6000	0.08	1000
AHF100505HQ1N6□T	1.6	8	100	23	29	46	49	54	6000	0.08	1000
AHF100505HQ1N8□T	1.8	8	100	20	30	41	43	49	6000	0.08	900
AHF100505HQ2N0□T	2.0	8	100	21	29	41	43	48	6000	0.09	900
AHF100505HQ2N2□T	2.2	8	100	22	29	44	47	52	6000	0.09	900
AHF100505HQ2N4□T	2.4	8	100	21	29	42	44	49	6000	0.10	800
AHF100505HQ2N7□T	2.7	8	100	22	29	43	45	50	6000	0.12	800
AHF100505HQ3N0□T	3.0	8	100	24	29	47	49	54	6000	0.12	800
AHF100505HQ3N3□T	3.3	8	100	24	30	46	48	53	6000	0.13	800
AHF100505HQ3N6□T	3.6	8	100	21	28	40	42	46	4000	0.15	700
AHF100505HQ3N9□T	3.9	8	100	22	28	43	45	50	4000	0.16	700
AHF100505HQ4N3□T	4.3	8	100	24	29	47	49	53	4000	0.16	700
AHF100505HQ4N7□T	4.7	8	100	23	29	45	47	50	4000	0.16	700
AHF100505HQ5N1□T	5.1	8	100	23	29	42	43	44	4000	0.16	600
AHF100505HQ5N6□T	5.6	8	100	22	28	42	43	45	4000	0.20	600
AHF100505HQ6N2□T	6.2	8	100	24	29	42	43	43	3900	0.20	600
AHF100505HQ6N8□T	6.8	8	100	23	28	40	41	41	3900	0.20	600
AHF100505HQ7N5□T	7.5	8	100	24	30	41	41	39	3700	0.24	500
AHF100505HQ8N2□T	8.2	8	100	23	28	38	38	36	3600	0.24	500
AHF100505HQ9N1□T	9.1	8	100	24	30	40	39	36	3400	0.26	500
AHF100505HQ10N□T	10.0	8	100	24	30	37	36	31	3200	0.26	500
AHF100505HQ12N□T	12	8	100	23	29	33	31	-	2700	0.50	400
AHF100505HQ15N□T	15	8	100	23	28	29	26	-	2300	0.50	400
AHF100505HQ18N□T	18	8	100	23	28	26	-	-	2100	0.60	350
AHF100505HQ20N□T	20	8	100	21	27	21	-	-	2000	0.60	350
AHF100505HQ22N□T	22	8	100	22	27	-	-	-	1900	0.60	350
AHF100505HQ27N□T	27	8	100	20	25	-	-	-	1600	0.70	300
AHF100505HQ33N□T	33	8	100	20	23	-	-	-	1300	0.80	300
AHF100505HQ39N□T	39	8	100	20	22	-	-	-	1200	1.00	250
AHF100505HQ43N□T	43	8	100	20	21	-	-	-	1100	1.10	250
AHF100505HQ47N□T	47	8	100	19	21	-	-	-	1000	1.10	250
AHF100505HQ56N□T	56	8	100	19	18	-	-	-	750	1.20	200
AHF100505HQ68N□T	68	8	100	17	18	-	-	-	750	1.40	200
AHF100505HQ82N□T	82	8	100	16	-	-	-	-	750	1.60	200
AHF100505HQR10□T	100	8	100	14	-	-	-	-	700	2.00	200
AHF100505HQR12□T	120	8	100	12	-	-	-	-	600	2.50	150
AHF100505HQR15□T	150	8	100	11	-	-	-	-	550	3.00	150
AHF100505HQR18□T	180	8	100	-	-	-	-	-	500	3.50	150
AHF100505HQR22□T	220	8	100	-	-	-	-	-	450	3.70	100
AHF100505HQR27□T	270	8	100	-	-	-	-	-	400	4.50	100
AHF100505HQR33□T	330	6	50	-	-	-	-	-	350	5.00	80
AHF100505HQR36□T	360	6	50	-	-	-	-	-	300	6.00	80

• 電性能參數 ELECTRICAL CHARACTERISTICS

1608 TYPE

型號 Part No.	電感量 Inductance (nH)	品質因數 Q (Min)	測試頻率 Test Fre. (MHz)	品質因數測試頻率 Q Frequency (MHz)			自諧振頻率 SRF (MHz)Min	直流電阻 DC R (Ω)Max	額定電流 Ir(mA) Max
				100	800	1000			
AHF160808H1N0ST	1.0	8	100	14	50	60	10000	0.05	500
AHF160808H1N2ST	1.2	8	100	14	50	65	10000	0.05	500
AHF160808H1N5ST	1.5	8	100	13	42	62	6000	0.10	500
AHF160808H1N8ST	1.8	8	100	13	40	56	6000	0.10	500
AHF160808H2N0ST	2.0	8	100	13	38	54	6000	0.10	500
AHF160808H2N2ST	2.2	8	100	13	38	54	6000	0.10	500
AHF160808H2N4ST	2.4	8	100	13	36	52	6000	0.12	500
AHF160808H2N7ST	2.7	10	100	12	36	52	6000	0.12	500
AHF160808H3N3ST	3.3	10	100	12	35	50	6000	0.15	500
AHF160808H3N6ST	3.6	10	100	13	35	50	6000	0.16	500
AHF160808H3N9ST	3.9	10	100	12	34	50	6000	0.16	500
AHF160808H4N3ST	4.3	10	100	13	33	50	6000	0.18	500
AHF160808H4N7ST	4.7	10	100	13	33	50	6000	0.20	500
AHF160808H5N1ST	5.1	10	100	13	32	48	5500	0.25	500
AHF160808H5N6ST	5.6	10	100	14	32	48	5000	0.25	500
AHF160808H6N8JT	6.8	10	100	14	32	50	5000	0.30	500
AHF160808H7N5JT	7.5	10	100	14	32	48	4500	0.35	500
AHF160808H8N2JT	8.2	10	100	14	30	48	4500	0.35	500
AHF160808H9N1JT	9.1	10	100	14	30	48	3500	0.40	500
AHF160808H10NJT	10	12	100	15	29	50	3500	0.40	300
AHF160808H12NJT	12	12	100	14	29	50	3000	0.45	300
AHF160808H15NJT	15	12	100	15	29	50	2300	0.50	300
AHF160808H18NJT	18	12	100	16	29	51	2200	0.55	300
AHF160808H22NJT	22	12	100	16	28	48	2000	0.60	300
AHF160808H27NJT	27	12	100	16	28	45	1700	0.65	300
AHF160808H33NJT	33	12	100	16	28	41	1500	0.70	300
AHF160808H39NJT	39	12	100	17	28	48	1400	0.70	300
AHF160808H47NJT	47	12	100	17	28	35	1200	0.70	300
AHF160808H56NJT	56	12	100	17	26	30	1100	0.75	300
AHF160808H68NJT	68	12	100	17	26	20	900	0.85	300
AHF160808H82NJT	82	8	100	15	22	-	800	1.00	300
AHF160808HR10JT	100	8	100	15	16	-	700	1.20	300
AHF160808HR12JT	120	8	50	15	-	-	600	1.40	200
AHF160808HR15JT	150	8	50	15	-	-	500	1.60	200
AHF160808HR18JT	180	8	50	15	-	-	400	1.90	200
AHF160808HR22JT	220	8	50	15	-	-	350	2.40	200
AHF160808HR27JT	270	8	50	16	-	-	350	2.60	150
AHF160808HR33JT	330	8	50	16	-	-	350	2.80	150
AHF160808HR39JT	390	8	50	16	-	-	300	3.20	150
AHF160808HR43JT	430	8	50	16	-	-	280	3.40	150
AHF160808HR47JT	470	8	50	15	-	-	250	3.60	150

車規疊層片式高頻電感

AUTOMOTIVE GRADE MULTILAYER CHIP RF INDUCTOR

• 電性能參數 ELECTRICAL CHARACTERISTICS

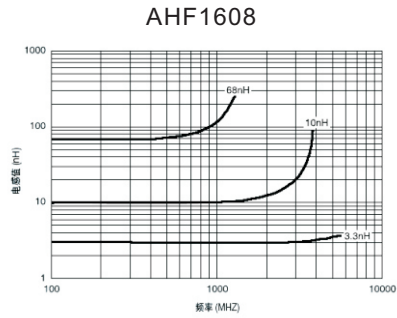
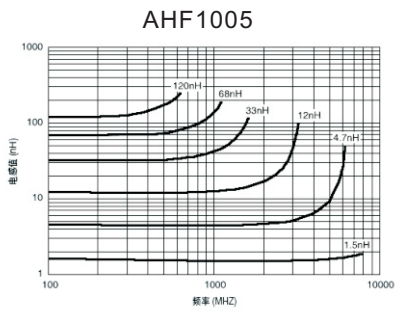
1608 TYPE

型號 Part No.	電感量 Inductance (nH)	品質因數 Q (Min)	測試頻率 Test Fre. (MHz)	品質因數測試頻率 Q Frequency (MHz)			自諧振頻率 SRF (MHz)Min	直流電阻 DCR (Ω)Max	額定電流 Ir(mA) Max
				100	800	1000			
AHF160808HQ1N0ST	1.0	8	100	13	65	75	10000	0.05	500
AHF160808HQ1N2ST	1.2	8	100	13	60	70	10000	0.05	500
AHF160808HQ1N5ST	1.5	8	100	13	47	65	6000	0.10	500
AHF160808HQ1N8ST	1.8	8	100	13	45	61	6000	0.10	500
AHF160808HQ2N0ST	2.0	8	100	13	45	60	6000	0.10	500
AHF160808HQ2N2ST	2.2	8	100	13	45	60	6000	0.10	500
AHF160808HQ2N4ST	2.4	8	100	13	44	55	6000	0.12	500
AHF160808HQ2N7ST	2.7	10	100	13	44	55	6000	0.12	500
AHF160808HQ3N3ST	3.3	10	100	13	43	50	6000	0.15	500
AHF160808HQ3N6ST	3.6	10	100	13	43	48	6000	0.16	500
AHF160808HQ3N9ST	3.9	10	100	13	43	48	6000	0.16	500
AHF160808HQ4N3ST	4.3	10	100	13	43	50	6000	0.18	500
AHF160808HQ4N7ST	4.7	10	100	13	43	50	6000	0.20	500
AHF160808HQ5N1ST	5.1	10	100	13	42	48	5500	0.25	500
AHF160808HQ5N6ST	5.6	10	100	14	42	48	5000	0.25	500
AHF160808HQ6N8JT	6.8	10	100	14	43	50	5000	0.30	500
AHF160808HQ7N5JT	7.5	10	100	14	43	48	4500	0.35	500
AHF160808HQ8N2JT	8.2	10	100	14	43	48	4500	0.35	500
AHF160808HQ9N1JT	9.1	10	100	14	43	48	3500	0.40	500
AHF160808HQ10NJT	10	12	100	15	45	50	3500	0.40	300
AHF160808HQ12NJT	12	12	100	18	48	50	3000	0.45	300
AHF160808HQ15NJT	15	12	100	18	48	50	2300	0.50	300
AHF160808HQ18NJT	18	12	100	16	48	51	2200	0.55	300
AHF160808HQ22NJT	22	12	100	16	45	48	2000	0.60	300
AHF160808HQ27NJT	27	12	100	16	45	45	1700	0.65	300
AHF160808HQ33NJT	33	12	100	16	45	41	1500	0.70	300
AHF160808HQ39NJT	39	12	100	17	40	48	1400	0.70	300
AHF160808HQ47NJT	47	12	100	17	35	35	1200	0.70	300
AHF160808HQ56NJT	56	12	100	17	35	30	1100	0.75	300
AHF160808HQ68NJT	68	12	100	17	30	20	900	0.85	300
AHF160808HQ82NJT	82	8	100	15	22	-	800	1.00	300
AHF160808HQR10JT	100	8	100	15	16	-	700	1.20	300
AHF160808HQR12JT	120	8	50	15	-	-	600	1.40	200
AHF160808HQR15JT	150	8	50	15	-	-	500	1.60	200
AHF160808HQR18JT	180	8	50	15	-	-	400	1.90	200
AHF160808HQR22JT	220	8	50	15	-	-	350	2.40	200
AHF160808HQR27JT	270	8	50	16	-	-	350	2.60	150
AHF160808HQR33JT	330	8	50	16	-	-	350	2.80	150
AHF160808HQR39JT	390	8	50	16	-	-	300	3.20	150
AHF160808HQR43JT	430	8	50	16	-	-	280	3.40	150
AHF160808HQR47JT	470	8	50	15	-	-	250	3.60	150

• 特性曲綫 CHARACTERISTICS CURVES

疊層片式高頻電感

■ 電感量頻率特性 Inductance VS. Frequency



■ Q值頻率特性 Q Value VS. Frequency

