

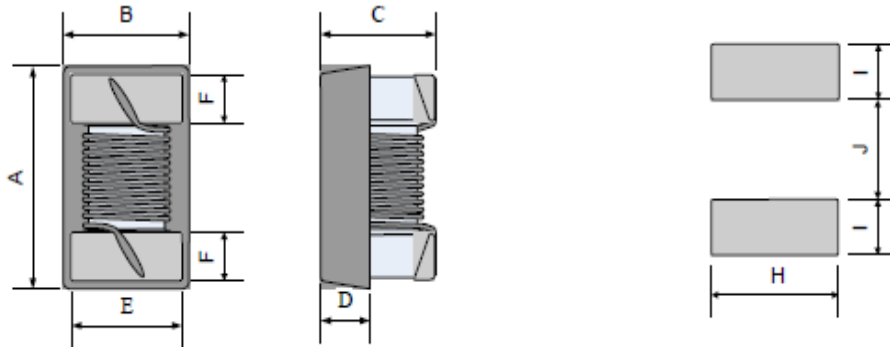




**SHAPE AND DIMENSIONS**

HRWL-P/H

Land Pattern



Series	A	B	C	D	E	F	H Typ.	I Typ.	J Typ.
HRWL-CSU1005T/H	1.10±0.1	0.6±0.1	0.6±0.1	0.20	0.5±0.1	0.2±0.1	0.65	0.35	0.50
HRWL-CSU1608T	1.70±0.2	1.1±0.2	0.9±0.2	0.38	0.76±0.1	0.3±0.1	1.02	0.69	0.71

**SPECIFICATIONS**

**HRWL-CSU1005-P TYPE**

Part Number	Inductance	Tolerance	Min. Quality Factor	L/Q Test Freq.	Max. DC Resistance	Max. Rated Current	resonant Frequency
Units	nH	-	-	MHz	Ω	mA	GHz
Symbol	L	-	Q	Freq.	DCR	I <sub>r</sub>	S.R.F
HRWL-CSU1005T1N0□F	1.0	b,c,s,d,k	20	250	0.030	2300	16.0
HRWL-CSU1005T2N0□F	2.0	b,c,s,d,j,k	24	250	0.038	2100	15.2
HRWL-CSU1005T2N2□F	2.2	b,c,s,d,j,k	25	250	0.038	2100	15.1
HRWL-CSU1005T2N4□F	2.4	C,S,D,J,K	23	250	0.042	2000	14.0
HRWL-CSU1005T2N7□F	2.7	C,S,D,J,K	24	250	0.056	1500	13.0
HRWL-CSU1005T3N3□F	3.3	C,S,D,J,K	28	250	0.045	1700	12.8
HRWL-CSU1005T3N6□F	3.6	C,S,D,J,K	28	250	0.045	1700	11.7
HRWL-CSU1005T3N9□F	3.9	C,S,D,J,K	28	250	0.045	1700	9.50
HRWL-CSU1005T4N3□F	4.3	S,D,J,K	27	250	0.040	1600	7.15
HRWL-CSU1005T4N7□F	4.7	S,D,J,K	23	250	0.060	1500	6.85
HRWL-CSU1005T5N1□F	5.1	S,D,J,K	20	250	0.100	1200	6.80
HRWL-CSU1005T5N6□F	5.6	S,D,J,K	29	250	0.048	1600	6.50
HRWL-CSU1005T6N2□F	6.2	S,D,J,K	29	250	0.050	1600	5.80
HRWL-CSU1005T6N8□F	6.8	g,h,j,k	28	250	0.055	1500	5.80
HRWL-CSU1005T7N5□F	7.5	g,h,j,k	26	250	0.080	1400	5.40
HRWL-CSU1005T8N2□F	8.2	g,h,j,k	28	250	0.054	1500	5.40
HRWL-CSU1005T8N7□F	8.7	g,h,j,k	29	250	0.058	1500	5.00
HRWL-CSU1005T9N0□F	9.0	g,h,j,k	27	250	0.070	1400	5.00
HRWL-CSU1005T9N5□F	9.5	g,h,j,k	28	250	0.075	1400	4.70
HRWL-CSU1005T10N□F	10	g,h,j,k	26	250	0.085	1300	4.70
HRWL-CSU1005T11N□F	11	g,h,j,k	29	250	0.065	1400	4.70
HRWL-CSU1005T12N□F	12	g,h,j,k	28	250	0.070	1200	4.40
HRWL-CSU1005T13N□F	13	g,h,j,k	27	250	0.140	870	4.20
HRWL-CSU1005T15N□F	15	g,h,j,k	28	250	0.130	1100	3.90
HRWL-CSU1005T16N□F	16	g,h,j,k	27	250	0.130	850	3.70
HRWL-CSU1005T18N□F	18	g,h,j,k	26	250	0.120	900	3.55

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**SPECIFICATIONS**

HRWL-CSU1005-P TYPE

Part Number	Inductance	Tolerance	Min. Quality Factor	L/Q Test Freq.	Max. DC Resistance	Max. Rated Current	Min. Self-resonant Frequency
Units	nH	-	-	MHz	Ω	mA	GHz
Symbol	L	-	Q	Freq.	DCR	I <sub>r</sub>	S.R.F
HRWL-CSU1005T19N□F	19	g,h,j,k	26	250	0.145	850	3.50
HRWL-CSU1005T20N□F	20	g,h,j,k	27	250	0.155	780	3.50
HRWL-CSU1005T21N□F	21	g,h,j,k	25	250	0.460	450	1.70
HRWL-CSU1005T22N□F	22	g,h,j,k	28	250	0.160	800	3.30
HRWL-CSU1005T23N□F	23	g,h,j,k	28	250	0.160	800	3.30
HRWL-CSU1005T24N□F	24	g,h,j,k	27	250	0.230	700	3.15
HRWL-CSU1005T25N□F	25	g,h,j,k	26	250	0.250	700	3.15
HRWL-CSU1005T26N□F	26	g,h,j,k	27	250	0.275	700	3.15
HRWL-CSU1005T27N□F	27	g,h,j,k	27	250	0.330	450	3.20
HRWL-CSU1005T30N□F	30	g,h,j,k	25	250	0.330	450	2.90
HRWL-CSU1005T33N□F	33	g,h,j,k	28	250	0.330	490	2.80
HRWL-CSU1005T36N□F	36	g,h,j,k	26	250	0.360	480	2.80
HRWL-CSU1005T37N□F	37	g,h,j,k	26	250	0.480	470	2.70
HRWL-CSU1005T39N□F	39	g,h,j,k	28	250	0.430	450	2.60
HRWL-CSU1005T40N□F	40	g,h,j,k	28	250	0.430	450	2.60
HRWL-CSU1005T43N□F	43	g,h,j,k	26	250	0.520	450	2.50
HRWL-CSU1005T47N□F	47	g,h,j,k	28	250	0.580	420	2.40
HRWL-CSU1005T51N□F	51	g,h,j,k	26	250	0.700	360	2.30

HRWL-CSH1005-H TYPE

Part Number	Inductance	Tolerance	Min. Quality Factor	L/Q Test Freq.	Max. DC Resistance	Max. Rated Current	Min. Self-resonant Frequency
Units	nH	-	-	MHz	Ω	mA	GHz
Symbol	L	-	Q	Freq.	DCR	I <sub>r</sub>	S.R.F
HRWL-CSH1005T56N□F	56	g,h,j,k	31	2500	0.900	330	2.07
HRWL-CSH1005T68N□F	68	g,h,j,k	31	250	1.000	320	1.84
HRWL-CSH1005T82N□F	82	g,h,j,k	31	250	1.100	315	1.75
HRWL-CSH1005TR10□F	100	g,h,j,k	30	250	1.200	310	1.58
HRWL-CSH1005TR12□F	120	g,h,j,k	29	250	1.200	310	1.25
HRWL-CSH1005TR15□F	150	g,h,j,k	29	100/250	2.000	240	1.14
HRWL-CSH1005TR18□F	180	g,h,j,k	32	100/250	2.100	240	1.08
HRWL-CSH1005TR22□F	220	g,h,j,k	32	100/250	3.100	160	0.96

HRWL-CSU1608 TYPE

Part Number	Inductance	Tolerance	Min. Quality Factor	L/Q Test Freq.	Max. DC Resistance	Max. Rated Current	Min. Self-resonant Frequency
Units	nH	-	-	MHz	Ω	mA	GHz
Symbol	L	-	Q	Freq.	DCR	I <sub>r</sub>	S.R.F
HRWL-CSU1608T1N8□F	1.8	C,S,D,J,K	23	250/250	0.033	2100	16.0
HRWL-CSU1608T2N2□F	2.2	C,S,D,J,K	13	250/250	0.230	900	15.0
HRWL-CSU1608T3N3□F	3.3	C,S,D,J,K	32	250/250	0.024	1900	9.60
HRWL-CSU1608T3N6□F	3.6	C,S,D,J,K	40	250/250	0.031	1900	9.70
HRWL-CSU1608T3N9□F	3.9	C,S,D,J,K	35	250/250	0.039	1600	7.50
HRWL-CSU1608T4N3□F	4.3	C,S,D,J,K	30	250/250	0.080	1300	7.50
HRWL-CSU1608T4N7□F	4.7	C,S,D,J,K	26	250/250	0.100	1100	7.90
HRWL-CSU1608T5N1□F	5.1	C,S,D,J,K	40	250/250	0.036	1700	8.90

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**SPECIFICATIONS**

**HRWL-CSU1608-P TYPE**

Part Number	Inductance	Tolerance	Min. Quality Factor	L/Q Test Freq.	Max. DC Resistance	Max. Rated Current	resonant Frequency
Units	nH	-	-	MHz	Ω	mA	GHz
Symbol	L	-	Q	Freq.	DCR	I <sub>r</sub>	S.R.F
HRWL-CSU1608T5N6□F	5.6	C,S,D,J,K	48	250/250	0.036	1700	6.60
HRWL-CSU1608T6N0□F	6.0	C,S,D,J,K	49	250/250	0.036	1700	6.00
HRWL-CSU1608T6N8□F	6.8	g,h,j,k	42	250/250	0.042	1400	5.80
HRWL-CSU1608T7N2□F	7.2	g,h,j,k	43	250/250	0.070	1400	5.40
HRWL-CSU1608T7N5□F	7.5	g,h,j,k	41	250/250	0.080	1300	5.30
HRWL-CSU1608T8N2□F	8.2	g,h,j,k	46	250/250	0.054	1400	5.90
HRWL-CSU1608T8N7□F	8.7	g,h,j,k	46	250/250	0.054	1400	5.50
HRWL-CSU1608T9N1□F	9.1	g,h,j,k	40	250/250	0.058	1400	5.10
HRWL-CSU1608T9N5□F	9.5	g,h,j,k	49	250/250	0.053	1400	4.90
HRWL-CSU1608T10N□F	10	g,h,j,k	49	250/250	0.048	1400	4.30
HRWL-CSU1608T11N□F	11	g,h,j,k	41	250/250	0.058	1400	4.10
HRWL-CSU1608T12N□F	12	g,h,j,k	37	250/250	0.115	1100	4.10
HRWL-CSU1608T15N□F	15	g,h,j,k	48	250/250	0.078	1200	3.60
HRWL-CSU1608T16N□F	16	g,h,j,k	48	250/250	0.085	1100	3.50
HRWL-CSU1608T18N□F	18	g,h,j,k	41	250/250	0.066	1200	3.30
HRWL-CSU1608T22N□F	22	g,h,j,k	44	250/250	0.140	850	3.15
HRWL-CSU1608T23N□F	23	g,h,j,k	40	250/250	0.190	850	3.00
HRWL-CSU1608T24N□F	24	g,h,j,k	42	250/250	0.074	1100	2.95
HRWL-CSU1608T27N□F	27	g,h,j,k	44	250/250	0.200	780	2.80
HRWL-CSU1608T30N□F	30	g,h,j,k	49	250/250	0.160	920	2.80
HRWL-CSU1608T33N□F	33	g,h,j,k	45	250/250	0.220	680	2.70
HRWL-CSU1608T36N□F	36	g,h,j,k	44	250/250	0.225	720	2.50
HRWL-CSU1608T39N□F	39	g,h,j,k	44	250/250	0.250	680	2.45
HRWL-CSU1608T43N□F	43	g,h,j,k	45	250/250	0.225	810	2.45
HRWL-CSU1608T47N□F	47	g,h,j,k	47	200/250	0.240	680	2.30
HRWL-CSU1608T51N□F	51	g,h,j,k	45	200/250	0.280	660	2.30
HRWL-CSU1608T56N□F	56	g,h,j,k	45	200/250	0.300	610	2.20
HRWL-CSU1608T68N□F	68	g,h,j,k	46	200/250	0.330	600	2.00
HRWL-CSU1608T72N□F	72	g,h,j,k	46	150/250	0.420	550	1.90
HRWL-CSU1608T75N□F	75	g,h,j,k	46	150/250	0.520	500	1.90
HRWL-CSU1608T82N□F	82	g,h,j,k	45	150/250	0.460	510	1.80
HRWL-CSU1608T91N□F	91	g,h,j,k	45	150/250	0.580	440	1.65
HRWL-CSU1608TR10□F	100	g,h,j,k	49	150/250	0.540	470	1.70
HRWL-CSU1608TR11□F	110	g,h,j,k	47	150/250	0.580	440	1.60
HRWL-CSU1608TR12□F	120	g,h,j,k	47	150/250	0.720	420	1.55
HRWL-CSU1608TR15□F	150	g,h,j,k	47	150/250	0.820	390	1.35
HRWL-CSU1608TR18□F	180	g,h,j,k	48	100/250	1.500	310	1.30
HRWL-CSU1608TR20□F	200	g,h,j,k	47	100/250	2.000	280	1.25
HRWL-CSU1608TR21□F	210	g,h,j,k	48	100/250	2.000	280	1.20
HRWL-CSU1608TR22□F	220	g,h,j,k	47	100/250	2.000	280	1.10
HRWL-CSU1608TR25□F	250	g,h,j,k	45	100/250	3.000	240	1.05
HRWL-CSU1608TR27□F	270	g,h,j,k	46	100/250	2.250	260	1.05
HRWL-CSU1608TR30□F	300	g,h,j,k	47	100/250	2.800	220	0.99
HRWL-CSU1608TR33□F	330	g,h,j,k	46	100/250	3.600	180	0.93
HRWL-CSU1608TR36□F	360	g,h,j,k	47	100/250	4.000	170	0.93
HRWL-CSU1608TR39□F	390	g,h,j,k	47	100/250	4.000	170	0.88

※ □: Please specify the inductance tolerance code (B=±0.1nH, C=±0.2nH, S=±0.3nH, D=±0.5nH, G=±2%, H=±3%, J=±5%).

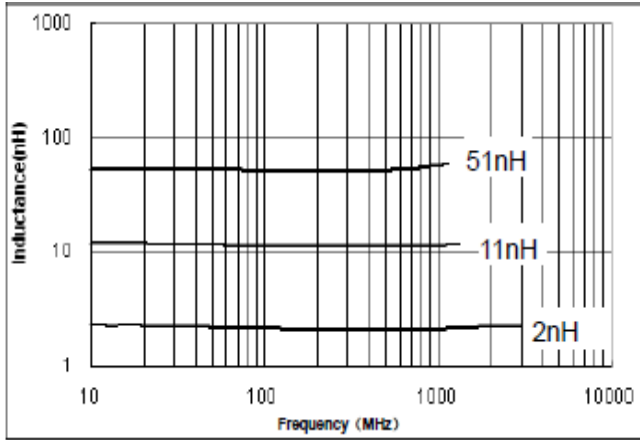
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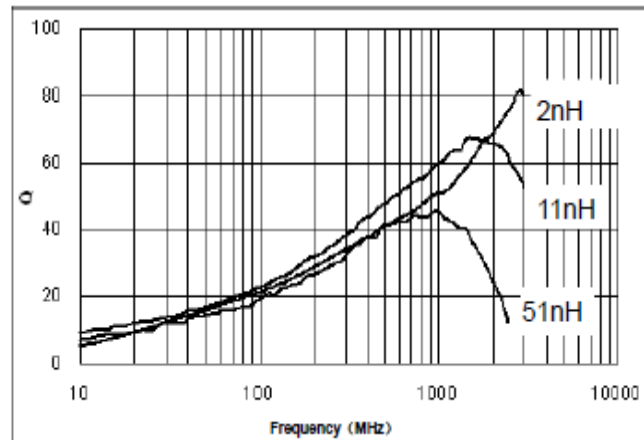
TYPICAL ELECTRICAL CHARACTERISTICS

HRWL-CSU1005-P TYPE

Inductance vs. Frequency Characteristics

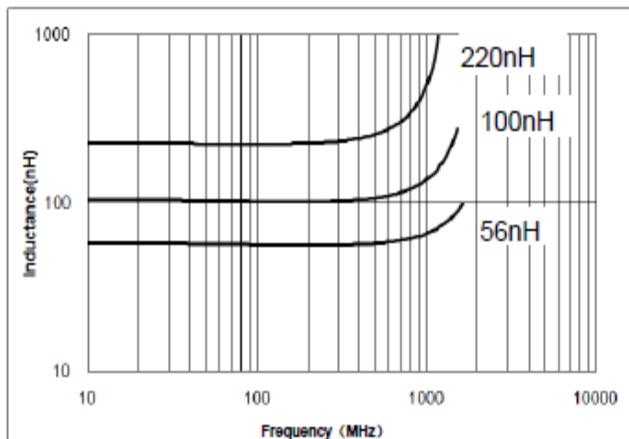


Q vs. Frequency Characteristics

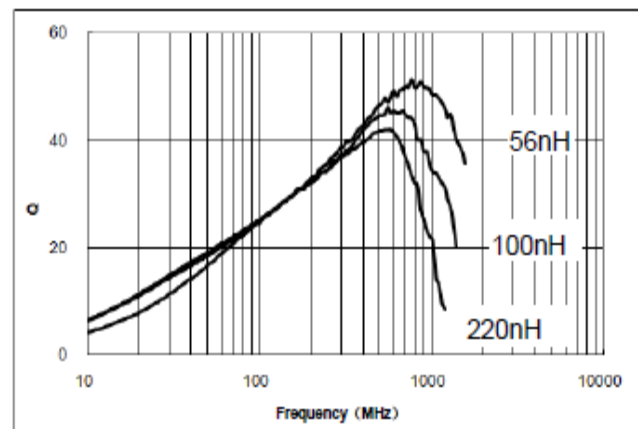


HRWL-CSU1005-H TYPE

Inductance vs. Frequency Characteristics

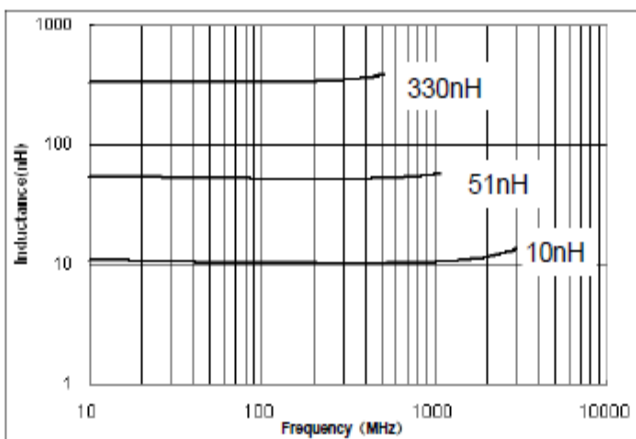


Q vs. Frequency Characteristics

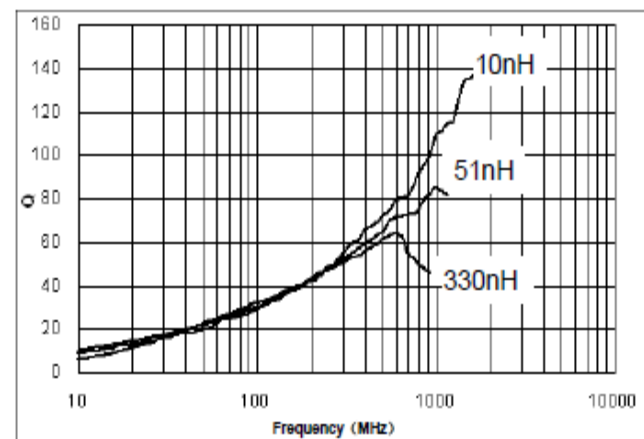


HRWL-CSU1608 TYPE

Inductance vs. Frequency Characteristics



Q vs. Frequency Characteristics



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