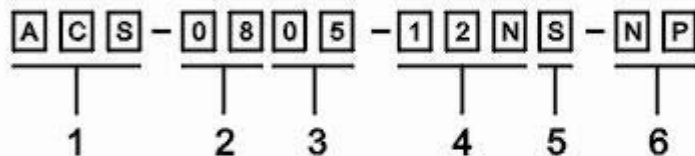




# WIRE WOUND HIGH FREQUENCY INDUCTOR

## ACS TYPE

### PRODUCT IDENTIFICATION



#### 1. PRODUCT SYMBOL

2. OUTSIDE DIA : mm

3. BODY HEIGHT : mm

4. INDUCTANCE : nH

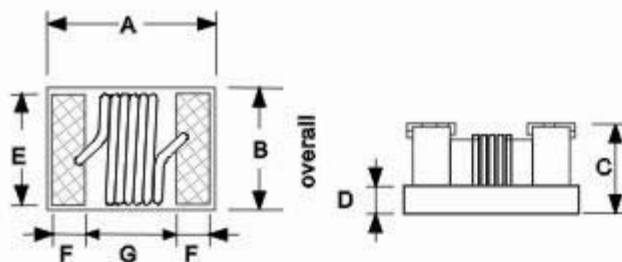
5. TOLERANCE : B 0.2nH, S 0.3nH, G ±2%, J ±5%, K ±10%

6. Meet ROHS Regulations of Prohibited 6 Poisonous Materials

### FEATURE

- Meet SONY SS-00259's criteria for lead-free product
- Ceramic body and wire wound construction provide highest SRFs
- These ultra-compact inductors provided exceptional Q values, even at high frequencies
- Their ceramic construction delivers the highest possible SRFs as well as excellent Q values
- The non-magnetic coil form also assures the utmost in thermal stability, predictability and batch consistency
- ACS series is standard parts for RF designers

### SHAPES & DIMENSION FOR ACS SERIES (mm)



TYPE	A	B	C	D
ACS0402	1.19 Max.	0.70Max.	0.66Max.	0.25
ACS0603	1.8 Max.	1.2Max.	1.02Max.	0.45
ACS0805	2.4Max.	1.65Max.	1.45Max.	0.65
ACS1008	2.9Max.	2.54Max.	2.03Max.	1.2

# WIRE WOUND HIGH FREQUENCY INDUCTOR

## ACS TYPE



### ELECTRICAL SPECIFICATION

PART NUMBER	L(nH)/MHz	Inductance	Q/MHz	900MHz		1.7GHz		SRF (Mnl.)	DC Resistance	I <sub>rms</sub> Max.
	L(nH)	Tolerance	Min.	L Typ.	Q Typ.	L Typ.	Q Typ.	GHz	(Ω)Max.	(mA)
ACS0402-1N0	1.0/250	5,10	16/250	1.02	77	1.02	69	12.70	0.045	1360
ACS0402-1N9	1.9/250	5,10	16/250	1.72	68	1.74	82	11.30	0.070	1040
ACS0402-2N0	2.0/250	5,10	16/250	2.19	54	1.93	75	11.10	0.070	1040
ACS0402-2N2	2.2/250	5,10	19/250	1.93	59	2.23	100	10.80	0.070	960
ACS0402-2N4	2.4/250	5,10	15/250	2.24	51	2.27	68	10.50	0.088	790
ACS0402-2N7	2.7/250	5,10	16/250	2.58	42	2.60	61	10.40	0.120	640
ACS0402-3N3	3.3/250	5,10	19/250	3.1	65	3.12	87	7.00	0.066	840
ACS0402-3N6	3.6/250	5,10	19/250	3.56	45	3.62	71	6.80	0.066	840
ACS0402-3N9	3.9/250	5,10	19/250	3.89	50	4.00	75	6.00	0.066	840
ACS0402-4N3	4.3/250	5,10	18/250	4.19	47	4.30	71	6.00	0.091	700
ACS0402-4N7	4.7/250	5,10	15/250	4.55	48	4.68	68	4.77	0.130	640
ACS0402-5N1	5.1/250	5,10	20/250	5.15	56	5.25	82	4.80	0.083	800
ACS0402-5N6	5.6/250	5,10	20/250	5.16	54	5.28	81	4.80	0.083	760
ACS0402-6N2	6.2/250	5,10	20/250	6.16	52	6.37	76	4.80	0.083	760
ACS0402-6N8	6.8/250	5,10	20/250	6.56	63	6.93	78	4.80	0.083	680
ACS0402-7N5	7.5/250	5,10	22/250	7.91	60	8.22	88	4.80	0.100	680
ACS0402-8N2	8.2/250	5,10	18/250	8.5	57	8.85	84	4.40	0.100	680
ACS0402-8N7	8.7/250	5,10	22/250	8.78	54	9.21	73	4.10	0.200	480
ACS0402-9N0	9.0/250	5,10	18/250	9.07	62	9.53	78	4.16	0.100	680
ACS0402-9N5	9.5/250	5,10	21/250	9.42	54	9.98	69	4.00	0.200	480
ACS0402-10N	10/250	5,10	24/250	9.8	50	10.10	67	3.90	0.200	480
ACS0402-11N	11/250	5,10	24/250	10.7	52	11.20	78	3.88	0.120	640
ACS0402-12N	12/250	5,10	24/250	11.9	53	12.70	57	3.80	0.120	640
ACS0402-13N	13/250	5,10	24/250	13.4	51	14.63	71	3.45	0.210	440
ACS0402-15N	15/250	5,10	24/250	14.6	55	15.50	77	3.28	0.170	560
ACS0402-16N	16/250	5,10	24/250	16.6	46	18.86	47	3.10	0.220	560
ACS0402-18N	18/250	5,10	25/250	18.3	57	20.28	62	3.10	0.230	420
ACS0402-19N	19/250	5,10	24/250	19.1	50	21.10	67	3.04	0.200	480
ACS0402-20N	20/250	5,10	25/250	20.7	52	23.66	53	3.00	0.250	420
ACS0402-22N	22/250	5,10	25/250	23.2	53	26.75	53	2.80	0.300	400
ACS0402-23N	23/250	5,10	22/250	23.8	49	26.90	64	2.72	0.300	400
ACS0402-24N	24/250	5,10	25/250	25.1	51	29.50	50	2.70	0.300	400
ACS0402-27N	27/250	5,10	24/250	28.7	49	33.50	63	2.48	0.300	400
ACS0402-30N	30/250	5,10	25/250	31.1	46	38.50	39	2.35	0.300	400
ACS0402-33N	33/250	5,10	24/250	39.5	31	41.74	32	2.35	0.400	400
ACS0402-36N	26/250	5,10	24/250	34.98	44	48.40	53	2.32	0.440	320
ACS0402-39N	39/250	5,10	25/250	41.7	47	50.23	45	2.10	0.550	200
ACS0402-40N	40/250	5,10	24/250	39	44	47.40	33	2.24	0.440	320
ACS0402-43N	43/250	5,10	25/250	45.8	46	61.55	34	2.03	0.810	100
ACS0402-47N	47/250	5,10	20/250	50	38			2.10	0.830	100
ACS0402-51N	51/250	5,10	25/250	56.6	40			1.75	0.820	150
ACS0402-56N	56/250	5,10	22/250	62.8	42			1.76	0.970	100
ACS0402-68N	68/250	5,10	22/250	78.2	36			1.62	1.120	100
ACS0402-82N	82/250	5,10	20/250					1.26	1.550	50
ACS0402-R10	100/250	5,10	20/250					1.16	2.000	30



# WIRE WOUND HIGH FREQUENCY INDUCTOR

## ACS TYPE

### ELECTRICAL SPECIFICATION

PART NUMBER	L(nH)/MHz	Inductance Tolerance	Q/MHz	SRF (Min.)	DC Resistance	I <sub>rms</sub> Max. (mA)	Color Coding
	L(nH)		Min.	GHz	( $\Omega$ )Max.		
ACS0603-1N6	1.6/250	J, K	18/250	12500	0.030	700	Red
ACS0603-1N8	1.8/250	J, K	16/250	12500	0.045	700	Black
ACS0603-3N3	3.3/250	J, K	30/250	5900	0.045	700	Blue
ACS0603-3N6	3.6/250	J, K	22/250	5900	0.063	700	Red
ACS0603-3N9	3.9/250	J, K	22/250	6900	0.080	700	Brown
ACS0603-4N3	4.3/250	J, K	22/250	5900	0.063	700	Orange
ACS0603-4N7	4.7/250	J, K	20/250	5800	0.085	700	Violet
ACS0603-5N1	5.1/250	J, K	20/250	5700	0.115	700	Green
ACS0603-5N6	5.6/250	J, K	18/250	5800	0.180	700	Black
ACS0603-6N3	6.3/250	J, K	26/250	5700	0.115	700	White
ACS0603-6N8	6.8/250	J, K	27/250	5800	0.125	700	Red
ACS0603-7N5	7.5/250	J, K	28/250	4800	0.115	700	Brown
ACS0603-8N2	8.2/250	J, K	30/250	4700	0.125	700	Orange
ACS0603-8N7	8.7/250	J, K	28/250	4600	0.109	700	Yellow
ACS0603-9N5	9.5/250	J, K	28/250	5400	0.145	700	Blue
ACS0603-10N	10/250	G, J, K	31/250	4800	0.145	700	Orange
ACS0603-11N	11/250	G, J, K	30/250	4000	0.145	700	Gray
ACS0603-12N	12/250	G, J, K	35/250	4000	0.145	700	Yellow
ACS0603-15N	15/250	G, J, K	35/250	4000	0.180	700	Green
ACS0603-16N	16/250	G, J, K	34/250	3300	0.170	700	White
ACS0603-18N	18/250	G, J, K	35/250	3100	0.180	700	Blue
ACS0603-22N	22/250	G, J, K	38/250	3000	0.205	700	Violet
ACS0603-23N	23/250	G, J, K	38/250	2850	0.205	700	Orange
ACS0603-24N	24/250	G, J, K	38/250	2650	0.205	700	Black
ACS0603-27N	27/250	G, J, K	40/250	2800	0.220	600	Gray
ACS0603-30N	30/250	G, J, K	37/250	2250	0.220	600	Brown
ACS0603-33N	33/250	G, J, K	40/250	2300	0.240	600	White
ACS0603-36N	36/250	G, J, K	37/250	2080	0.250	600	Red
ACS0603-39N	39/250	G, J, K	40/250	2200	0.260	600	Black
ACS0603-43N	43/250	G, J, K	38/250	2000	0.280	600	Orange
ACS0603-47N	47/200	G, J, K	38/200	2000	0.280	600	Brown
ACS0603-56N	56/200	G, J, K	38/200	1900	0.310	600	Red
ACS0603-68N	68/200	G, J, K	37/200	1700	0.340	600	Orange
ACS0603-72N	72/150	G, J, K	34/150	1700	0.490	400	Yellow
ACS0603-82N	82/150	G, J, K	34/150	1700	0.540	400	Green
ACS0603-R10	100/150	G, J, K	34/150	1400	0.587	400	Blue
ACS0603-R11	110/150	G, J, K	32/150	1350	0.610	300	Violet
ACS0603-R12	120/150	G, J, K	32/150	1300	0.750	300	Gray
ACS0603-R15	150/150	G, J, K	28/150	990	0.920	280	White
ACS0603-R18	180/100	G, J, K	25/100	990	1.250	240	Black
ACS0603-R22	220/100	G, J, K	25/100	900	1.700	200	Brown
ACS0603-R27	270/100	G, J, K	24/100	900	2.450	170	Red
ACS0603-R33	330/100	G, J, K	25/100	900	2.750	100	Blue
ACS0603-R39	390/100	G, J, K	25/100	900	3.150	100	Yellow
ACS0603-R47	470/100	G, J, K	25/100	750	4.000	80	Green

# WIRE WOUND HIGH FREQUENCY INDUCTOR

## ACS TYPE



### ELECTRICAL SPECIFICATION

PART NUMBER	L(nH)/MHz	Inductance Tolerance	Q/MHz	SRF	DC	Irms Max. (mA)	Color Coding
	L(nH)		Min.	(Min.) GHz	Resistance ( $\Omega$ )Max.		
ACS0805-2N8	2.8/250	J, K	70/1500	7900	0.080	800	Gray
ACS0805-3N0	3.0/250	J, K	55/1500	7900	0.080	800	White
ACS0805-3N3	3.3/250	J, K	45/1500	7900	0.120	600	Black
ACS0805-5N6	5.6/250	J, K	65/1000	5500	0.080	600	Orange
ACS0805-6N8	6.8/250	J, K	50/1000	5500	0.110	600	Brown
ACS0805-7N5	7.5/250	J, K	50/1000	4500	0.140	600	Green
ACS0805-8N2	8.2/250	J, K	50/1000	4700	0.160	600	Red
ACS0805-10N	10/250	G, J, K	60/500	4200	0.100	600	Blue
ACS0805-12N	12/250	G, J, K	50/500	4000	0.150	600	Orange
ACS0805-15N	15/250	G, J, K	50/500	3400	0.170	600	Yellow
ACS0805-18N	18/250	G, J, K	50/500	3300	0.200	600	Green
ACS0805-22N	22/250	G, J, K	55/500	2600	0.220	500	Blue
ACS0805-24N	24/250	G, J, K	50/500	2000	0.220	500	Gray
ACS0805-27N	27/250	G, J, K	55/500	2500	0.250	500	Violet
ACS0805-33N	33/250	G, J, K	60/500	2050	0.270	500	Gray
ACS0805-36N	36/250	G, J, K	55/500	1700	0.270	500	Orange
ACS0805-39N	39/250	G, J, K	60/500	2000	0.290	500	White
ACS0805-43N	43/200	G, J, K	60/500	1650	0.340	500	Yellow
ACS0805-47N	47/200	G, J, K	60/500	1650	0.310	500	Black
ACS0805-56N	56/200	G, J, K	60/500	1550	0.340	500	Brown
ACS0805-68N	68/200	G, J, K	60/500	1450	0.380	500	Red
ACS0805-82N	82/150	G, J, K	65/500	1300	0.420	400	Orange
ACS0805-91N	91/150	G, J, K	65/500	1200	0.480	400	Black
ACS0805-R10	100/150	G, J, K	65/500	1200	0.460	400	Yellow
ACS0805-R11	110/150	G, J, K	50/250	1000	0.480	400	Brown
ACS0805-R12	120/150	G, J, K	50/250	1100	0.510	400	Green
ACS0805-R15	150/100	G, J, K	50/250	920	0.560	400	Blue
ACS0805-R16	160/100	G, J, K	50/250	900	0.600	400	Gray
ACS0805-R18	180/100	G, J, K	50/250	870	0.640	400	Violet
ACS0805-R20	200/100	G, J, K	50/250	865	0.680	400	Red
ACS0805-R22	220/100	G, J, K	50/250	850	0.700	400	Gray
ACS0805-R24	240/100	G, J, K	44/250	690	1.000	350	Red
ACS0805-R25	250/100	G, J, K	48/250	680	1.000	350	Yellow
ACS0805-R27	270/100	G, J, K	48/250	650	1.000	350	White
ACS0805-R33	330/100	G, J, K	48/250	600	1.400	310	Black
ACS0805-R39	390/100	G, J, K	48/250	560	1.500	290	Brown
ACS0805-R47	470/500	G, J, K	30/100	375	1.760	250	Violet
ACS0805-R56	560/25	G, J, K	23/50	340	1.900	230	Orange
ACS0805-R62	62/25	G, J, K	23/50	220	2.200	210	White
ACS0805-R68	680/25	G, J, K	23/50	188	2.200	190	Green
ACS0805-R82	820/25	G, J, K	23/50	215	2.350	180	Blue
ACS0805-1R0	40.00	G, J, K	22/50	200	2.450	170	Violet



# WIRE WOUND HIGH FREQUENCY INDUCTOR ACS TYPE

## ELECTRICAL SPECIFICATION

PART NUMBER	L(nH)/MHz	Inductance Tolerance	Q/MHz	SRF (Min.)	DC Resistance	I <sub>rms</sub> Max. (mA)	Color Coding		
	L(nH)		Min.	GHz	(Ω)Max.		1st	2nd	3rd
ACS1008-10N	10/50	G,J,K	50/500	4100.00	0.080	1000	Brown	Black	Black
ACS1008-12N	12/50	G,J,K	50/500	3300.00	0.090	1000	Brown	Red	Black
ACS1008-15N	15/50	G,J,K	45/500	2500.00	0.100	1000	Brown	Green	Black
ACS1008-18N	18/50	G,J,K	50/350	2500.00	0.110	1000	Brown	Gray	Black
ACS1008-22N	22/50	G,J,K	55/350	2400.00	0.120	1000	Red	Red	Black
ACS1008-27N	27/50	G,J,K	55/350	1800.00	0.130	1000	Red	Violet	Black
ACS1008-33N	33/50	G,J,K	60/350	1600.00	0.140	1000	Orange	Orange	Black
ACS1008-39N	39/50	G,J,K	60/350	1500.00	0.150	1000	Orange	White	Black
ACS1008-47N	47/50	G,J,K	65/350	1500.00	0.160	1000	Yellow	Violet	Black
ACS1008-56N	56/50	G,J,K	65/350	1300.00	0.180	1000	Green	Blue	Black
ACS1008-68N	68/50	G,J,K	65/350	1300.00	0.200	1000	Blue	Gray	Black
ACS1008-82N	82/50	G,J,K	60/350	1000.00	0.220	1000	Gray	Red	Brown
ACS1008-R10	100/25	G,J,K	60/350	1000.00	0.560	650	Brown	Black	Brown
ACS1008-R12	120/25	G,J,K	60/350	950.00	0.630	650	Brown	Red	Brown
ACS1008-R15	150/25	G,J,K	45/100	850.00	0.700	580	Brown	Green	Brown
ACS1008-R18	180/25	G,J,K	45/100	750.00	0.770	620	Brown	Gray	Brown
ACS1008-R22	220/25	G,J,K	45/100	700.00	0.840	500	Red	Red	Brown
ACS1008-R27	270/25	G,J,K	45/100	600.00	0.910	500	Red	Violet	Brown
ACS1008-R33	330/25	G,J,K	45/100	570.00	1.050	450	Orange	Orange	Brown
ACS1008-R39	390/25	G,J,K	45/100	500.00	1.120	470	Orange	White	Brown
ACS1008-R47	470/25	G,J,K	45/100	450.00	1.190	470	Yellow	Violet	Brown
ACS1008-R56	560/25	G,J,K	45/100	415.00	1.330	400	Green	Blue	Brown
ACS1008-R62	620/25	G,J,K	45/100	375.00	1.400	300	Blue	Red	Brown
ACS1008-R68	680/25	G,J,K	45/100	375.00	1.470	400	Blue	Gray	Brown
ACS1008-R75	750/25	G,J,K	45/100	360.00	1.540	360	Violet	Green	Brown
ACS1008-R82	820/25	G,J,K	45/100	350.00	1.610	400	Gray	Red	Brown
ACS1008-R91	910/25	G,J,K	35/50	320.00	1.680	380	White	Brown	Brown
ACS1008-1R0	1000/25	G,J,K	35/50	290.00	1.750	370	Brown	Brown	Red
ACS1008-1R2	1200/7.9	G,J,K	35/50	250.00	2.000	310	Brown	Red	Red
ACS1008-1R5	1500/7.9	G,J,K	28/50	200.00	2.300	330	Brown	Green	Red
ACS1008-1R8	1800/7.9	G,J,K	28/50	160.00	2.600	300	Brown	Gray	Red
ACS1008-2R2	2200/7.9	G,J,K	28/50	160.00	2.800	280	Red	Red	Red
ACS1008-2R7	2700/7.9	G,J,K	22/25	135.00	3.200	290	Red	Violet	Red
ACS1008-3R3	3300/7.9	G,J,K	22/25	110.00	3.400	290	Orange	Orange	Red
ACS1008-3R9	3900/7.9	G,J,K	20/25	100.00	3.600	280	Orange	White	Red
ACS1008-4R7	4700/7.9	G,J,K	20/25	90.00	4.000	260	Yellow	Violet	Red
ACS1008-5R6	5600/7.9	G,J,K	18/7.9	40.00	4.000	240	Green	Blue	Red
ACS1008-6R8	6800/7.9	G,J,K	18/7.9	40.00	4.900	200	Blue	Gray	Red
ACS1008-8R2	8200/7.9	G,J,K	18/7.9	25.00	6.000	170	Gray	Red	Red
ACS1008-100	10000/2.5	G,J,K	18/7.9	25.00	8.000	150	Brown	Black	Orange