

Wire Wound Chip Ferrite Inductorx

ACKCW Series

Operating Temp. : -55°C~+150°C

FEATURES:

- ⊙ High Q value and high self-resonant frequency with Ferrite material
- ⊙ Small chip suitable for surface mounting
- ⊙ Tight inductance tolerance and high reliability
- ⊙ AEC-Q200 verified

APPLICATIONS:

- ⊙ Antenna amplifiers
- ⊙ Wireless communication systems
- ⊙ Multimedia
- ⊙ Automotive electronics and GPS

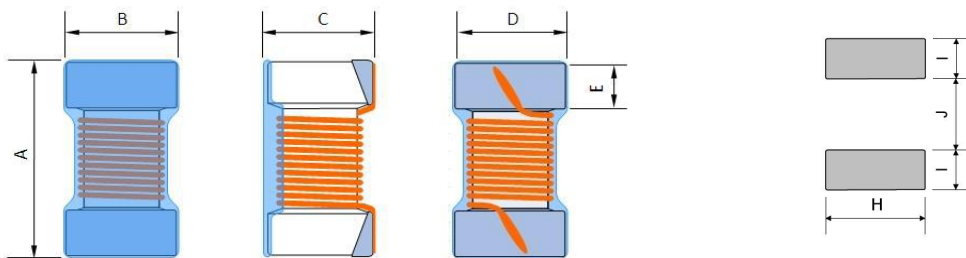
PART NUMBERING SYSTEM:

ACKCW 0603 - 1uH / J

① ② ③ ④

- ①: Automobile Type
- ②: External Dimensions (L*W:0.6*0.3inch)
- ③: Inductance Value (1uH)
- ④: Tolerance(J: ±5%)

SHAPES AND DIMENSIONS: (Unit:mm)



Recommended Land Pattern

SERIES	A	B	C	D	E	H	I	J
ACKCW0603	1.8 Max	1.12 Max	1.02 Max	0.76 Typ	0.33Typ	1.02 ref	0.64 ref	0.64 ref
ACKCW0805	2.29 Max	1.73 Max	1.55Max	1.27 Typ	0.50Typ	1.78 ref	1.02 ref	0.76 ref

* Electrode Coplanarity:0.1mm Max.

ACKCW0603 Series

SPECIFICATION
TABLE:

Part Number	Inductance	Tolerance	Min. Quality Factor	L/Q Test Freq.	Max. DC Resistance	Max. Rated Current	Self-resonant Frequency
Units	uH			MHz	Ω	mA	MHz
Symbol	L		Q	Freq.	DCR	I _{rms}	SRF (Min)
ACKCW0603-100nH/□	100nH	K,M	/	10	0.1	1000	1260
ACKCW0603-160nH/□	160nH	J,K,M	/	10	0.1	1000	800
ACKCW0603-210nH/□	210nH	J,K,M	/	10	0.15	800	720
ACKCW0603-270nH/□	270nH	J,K,M	/	10	0.16	750	660
ACKCW0603-330nH/□	330nH	J,K,M	/	10	0.25	630	600
ACKCW0603-390nH/□	390nH	J,K,M	/	10	0.28	620	570
ACKCW0603-470nH/□	470nH	J,K,M	/	10	0.45	500	555
ACKCW0603-560nH/□	560nH	J,K,M	/	10	0.48	450	540
ACKCW0603-650nH/□	650nH	J,K,M	/	10	0.52	430	510
ACKCW0603-680nH/□	680nH	J,K,M	12	7.9	0.77	380	350
ACKCW0603-1.0uH/□	1.0	J,K,M	16	7.9	0.42	700	400
ACKCW0603-1.5uH/□	1.5	J,K,M	12	7.9	1.3	310	340
ACKCW0603-2.2uH/□	2.2	J,K,M	16	7.9	0.73	580	85
ACKCW0603-3.3uH/□	3.3	J,K,M	16	7.9	1.04	580	60
ACKCW0603-4.7uH/□	4.7	J,K,M	16	7.9	1.26	500	51
ACKCW0603-6.8uH/□	6.8	J,K,M	16	7.9	1.95	280	43
ACKCW0603-10uH/□	10	J,K,M	14	2.5/7.9	1.95	280	36
ACKCW0603-15uH/□	15	J,K,M	14	2.5/7.9	3.38	240	25
ACKCW0603-22uH□	22	J,K,M	14	2.5/7.9	4.69	240	24
ACKCW0603H-470nH/□	470nH	J,K,M	12	2.5/7.9	0.104	1100	670
ACKCW0603H-560nH/□	560nH	J,K,M	10	2.5/7.9	0.15	1100	360

※□: Please specify the inductance tolerance code (J=±5%, K=±10%).

ACKCW0805 Series

SPECIFICATION
TABLE:

Part Number	Inductance	Tolerance	Min. Quality Factor	L/Q Test Freq.	Max. DC Resistance	Max. Rated Current	Self-resonant Frequency
Units	/			MHz	Ω	mA	GHz
Symbol	L	Q	Q	Freq.	DCR	I _{rms}	SRF (Min)
ACKCW0805-120nH/□	120 nH	J,K	19	7.9	0.270	750	340
ACKCW0805-150nH/□	150 nH	J,K	19	7.9	0.300	720	480
ACKCW0805-180nH/□	180 nH	J,K	19	7.9	0.400	720	480
ACKCW0805-220nH/□	220 nH	J,K	19	7.9	0.400	720	480
ACKCW0805-390nH/□	390 nH	J,K	19	7.9	0.310	720	500
ACKCW0805-470nH/□	470 nH	J,K	19	7.9	0.310	720	500
ACKCW0805-560nH/□	560 nH	J,K	12	7.9	0.460	400	400
ACKCW0805-680nH/□	680 nH	J,K	12	7.9	0.460	590	400
ACKCW0805-810nH/□	810 nH	J,K	12	7.9	1.000	520	360
ACKCW0805-880nH/□	880 nH	J,K	12	7.9	1.000	520	360
ACKCW0805-910nH/□	910 nH	J,K	12	7.9	1.000	430	360
ACKCW0805-1.0uH/□	1.0uH	J,K	12	7.9	1.000	430	330
ACKCW0805-1.2uH/□	1.2uH	J,K	12	7.9	1.150	410	350
ACKCW0805-1.5uH/□	1.5uH	J,K	12	7.9	1.200	400	300
ACKCW0805-1.8uH/□	1.8uH	J,K	12	7.9	1.350	380	300
ACKCW0805-2.2uH/□	2.2uH	J,K	12	7.9	1.500	350	170
ACKCW0805-2.7uH/□	2.7uH	J,K	12	7.9	1.700	320	100
ACKCW0805-3.3uH/□	3.3 uH	J,K	12	7.9	1.800	300	90
ACKCW0805-3.9uH/□	3.9 uH	J,K	12	7.9	1.950	280	90
ACKCW0805-4.7uH/□	4.7 uH	J,K	12	7.9	2.050	250	60
ACKCW0805-5.6uH/□	5.6 uH	J,K	12	7.9	2.300	240	70
ACKCW0805-6.8uH/□	6.8 uH	J,K	12	7.9	2.600	220	55
ACKCW0805-8.2uH/□	8.2 uH	J,K	12	7.9	3.000	180	50
ACKCW0805-10uH/□	10 uH	J,K	10	2.5	2.550	150	35
ACKCW0805-12uH/□	12 uH	J,K	10	2.5	3.500	100	16
ACKCW0805-15uH/□	15 uH	J,K	10	2.5	4.200	100	16
ACKCW0805-18uH/□	18 uH	J,K	10	2.5	4.500	95	14
ACKCW0805-22uH/□	22 uH	J,K	10	2.5	6.000	80	14
ACKCW0805-27uH/□	27 uH	J,K	10	2.5	10.700	60	17
ACKCW0805-33uH/□	33 uH	J,K	10	2.5	10.700	60	17
ACKCW0805-39uH/□	39 uH	J,K	10	2.5	10.000	60	14
ACKCW0805-47uH/□	47 uH	J,K	10	2.5	13.800	55	14
ACKCW0805H-3.3uH/□	3.3 uH	J,K	13	7.9	1.000	500	60
ACKCW0805H-4.7uH/□	4.7 uH	J,K	14	7.9	0.560	520	51

※□: Please specify the inductance tolerance code (J=±5%, K=±10%).

