

WIRE WOUND CHIP CERAMIC INDUCTOR

ACKCW-C Series

Operating Temp. : -55°C~+150°C

FEATURES:

- ① High Q value and high self-resonant frequency with ceramic material
- ② Small chip suitable for surface mounting
- ③ Tight inductance tolerance and high reliability
- ④ AEC-Q200 verified

APPLICATIONS:

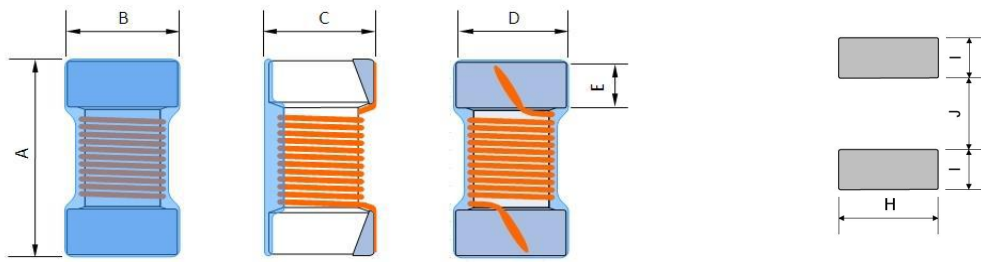
- ① Antenna amplifiers
- ② Wireless communication systems
- ③ Multimedia
- ④ Automotive electronics and GPS

PART NUMBERING SYSTEM:

ACKCW 0603 H - 390nH / J - (C)

- | | | | | | |
|----------------------|--|---|---|---|---|
| ① | ② | ③ | ④ | ⑤ | ⑥ |
| ①: Automobile Type | ②: External Dimensions (L*W:0.6*0.3inch) | | | | |
| ③: High Current | ④: Inductance Value | | | | |
| ⑤: Tolerance(J:±5%) | ⑥: Material code (Ceramic) | | | | |

SHAPES AND DIMENSIONS: (Unit:mm)



Recommended Land Pattern

SERIES	A	B	C	D	E	H	I	J
ACKCW0402H (C)	1.2 Max	0.7 Max	0.65 Max	0.5 Typ	0.2 Typ	0.65 Ref	0.35 Ref	0.50 Ref
ACKCW0603 (C)	1.8 Max	1.12 Max	1.02 Max	0.76 Typ	0.33Typ	1.02 ref	0.64 ref	0.64 ref
ACKCW0805 (C)	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(C) Series


SPECIFICATION TABLE:

Part Number	Inductance	Tolerance	Min. Quality Factor	L/Q Test Freq	Max. DC Resistance	Max. Rated Current	Self-resonant Frequency
Units	nH			MHz	Ω	mA	GHz
Symbol	L		Q	Freq.	DCR	I _{rms}	SRF (Min)
ACKCW0603-100nH/□(C)	100	J,K,M	34	150	0.580	400	1.40
ACKCW0603-110nH/□(C)	110	J,K,M	32	150	0.610	300	1.35
ACKCW0603-120nH/□(C)	120	J,K,M	32	150	0.650	300	1.30
ACKCW0603-150nH/□(C)	150	J,K,M	28	150	0.920	280	0.99
ACKCW0603-180nH/□(C)	180	J,K,M	25	100	1.250	240	0.99
ACKCW0603-200nH/□(C)	200	J,K,M	25	100	1.980	200	0.90
ACKCW0603-210nH/□(C)	210	J,K,M	27	100	2.060	200	0.895
ACKCW0603-220nH/□(C)	220	J,K,M	25	100	2.100	200	0.90
ACKCW0603-250nH/□(C)	250	J,K,M	25	100	3.550	120	0.822
ACKCW0603-270nH/□(C)	270	J,K,M	26	100	2.160	170	0.83
ACKCW0603-330nH/□(C)	330	J,K,M	25	100	3.890	100	0.8
ACKCW0603-390nH/□(C)	390	J,K,M	25	100	4.350	100	0.78
ACKCW0603-470nH/□(C)	470	J,K,M	27	100	5.700	90	0.70
ACKCW0603-560nH/□(C)	560	J,K,M	27	100	8.100	70	0.65

※: Please specify the inductance tolerance code (B=±0.1nH, C=±0.2nH, S=±0.3nH, D=±0.5nH, G=±2%, H=±3%, J=±5%, K=±10%).

ACKCW0805(C) Series

SPECIFICATION
TABLE:

Part Number	Inductance	Tolerance	Min. Quality Factor	L/Q Test Freq	Max. DC Resistance	Max. Rated Current	Self-resonant Frequency
Units	nH			MHz	Ω	mA	MHz
Symbol	L		Q	Freq.	DCR	I _{rms}	SRF (Min)
ACKCW0805-10nH/□(C)	10	J,K,M	60	250	0.100	600	4300
ACKCW0805-22nH/□(C)	22	J,K,M	55	250	0.220	500	2000
ACKCW0805-100nH/□(C)	100	J,K,M	65	150/500	0.460	400	1250
ACKCW0805-120nH/□(C)	120	J,K,M	50	150/250	0.510	400	1100
ACKCW0805-150nH/□(C)	150	J,K,M	50	100/250	0.560	400	920
ACKCW0805-160nH/□(C)	160	J,K,M	50	100/250	0.600	400	920
ACKCW0805-180nH/□(C)	180	J,K,M	50	100/250	0.640	400	920
ACKCW0805-220nH/□(C)	220	J,K,M	50	100/250	0.700	400	850
ACKCW0805-270nH/□(C)	270	J,K,M	48	100/250	1.000	350	730
ACKCW0805-330nH/□(C)	330	J,K,M	48	100/250	1.400	310	650
ACKCW0805-390nH/□(C)	390	J,K,M	48	100/250	1.500	290	600
ACKCW0805-470nH/□(C)	470	J,K,M	33	50/100	1.760	250	375
ACKCW0805-560nH/□(C)	560	J,K,M	23	25/50	1.900	230	330
ACKCW0805-680nH/□(C)	680	J,K,M	23	25/50	2.050	190	270

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