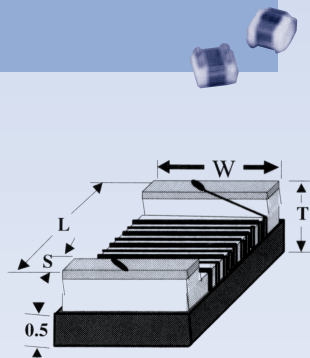


Wire Wound Chip

Surface Mount

ADWIA Series

ADWIA



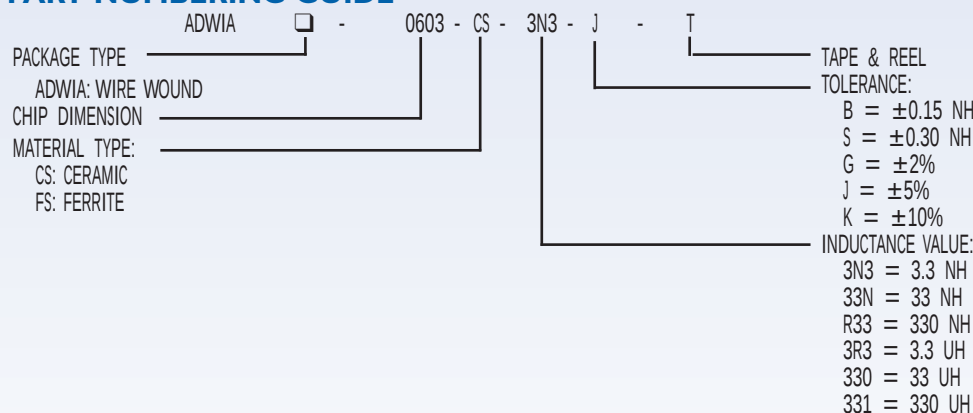
INTRODUCTION

The ADWIA series are wire wound type chip inductors widely used in the communication applications such as cellular phones, pagers, television tuners, radios, and other electronic devices. The wire wound features advance in higher self resonate frequency, better Q factor, and much stabler performance.

FEATURES

- Operating Temperature: -40°C to 85°C.
- Excellent solderability and resistance to soldering heat.
- Suitable for flow and reflow soldering.
- Good dimensions, high reliability, and easy surface mount assembly.
- 3 types of materials provide wide range of induction value for flexible needs.

PART NUMBERING GUIDE



SPECIFICATIONS

SIZE	LENGTH (L) (inch) mm	WIDTH (W) (inch) mm	THICKNESS (T) (inch) mm	TERMINAL (S) (inch) mm
ADWIA-0603	(0.063 $\pm$ 0.008) 1.60 $\pm$ 0.2	(0.041 $\pm$ 0.008) 1.05 $\pm$ 0.2	(0.041 $\pm$ 0.008) 1.05 $\pm$ 0.2	(0.014 $\pm$ 0.004) 0.35 $\pm$ 0.1
ADWIA-0805	(0.080 $\pm$ 0.008) 2.00 $\pm$ 0.2	(0.050 $\pm$ 0.008) 1.25 $\pm$ 0.2	(0.048 $\pm$ 0.008) 1.20 $\pm$ 0.2	(0.016 $\pm$ 0.004) 0.40 $\pm$ 0.1
ADWIA-1008	(0.098 $\pm$ 0.008) 2.5 $\pm$ 0.2	(0.063 $\pm$ 0.008) 1.60 $\pm$ 0.2	(0.063 $\pm$ 0.008) 1.60 $\pm$ 0.2	(0.020 $\pm$ 0.004) 0.50 $\pm$ 0.1
ADWIA-1210	(0.126 $\pm$ 0.008) 3.20 $\pm$ 0.2	(0.098 $\pm$ 0.008) 2.50 $\pm$ 0.2	(0.087 $\pm$ 0.008) 2.20 $\pm$ 0.2	(0.020 $\pm$ 0.004) 0.50 $\pm$ 0.1

Wire Wound Chip

Surface Mount

ADWIA Ceramic Series



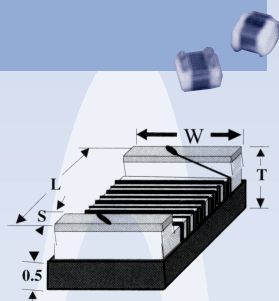
ADWIA-0603CS

INTRODUCTION

The ADWIA series are wire wound type chip inductors widely used in the communication applications such as cellular phones, pagers, television tuners, radios, and other electronic devices. The wire wound features advance in higher self resonate frequency, better Q factor, and much stabler performance.

FEATURES

- Operating Temperature: -40°C to 85°C.
- Excellent solderability and resistance to soldering heat.
- Suitable for flow and reflow soldering.
- Good dimensions, high reliability, and easy surface mount assembly.
- 3 types of materials provide wide range of induction value for flexible needs.



SPECIFICATIONS

SIZE	LENGTH (L) (inch) mm	WIDTH (W) (inch) mm	THICKNESS (T) (inch) mm	TERMINAL (S) (inch) mm
ADWIA-0603	(0.063 ± 0.008) 1.60 ± 0.2	(0.031 ± 0.008) 1.05 ± 0.2	(0.041 ± 0.008) 1.05 ± 0.2	(0.014 ± 0.004) 0.35 ± 0.1

ADWIA-0603CS (1608) SERIES STANDARD SPECIFICATIONS

PACKAGE TYPE	INDUCTANCE ¹ (nH)	PERCENT TOLERANCE	Q ²		S.R.F. ³ min. (MHz)	RDC ⁴ max. (Ω)	IDC ⁵ max. (mA)
			min.	Typical @ 900MHz			
ADWIA-0603CS 2N2 □ T	2.2 @ 250 MHz	B,S	18	38	6900	0.08	700
ADWIA-0603CS 3N9 □ T	3.9 @ 250 MHz	B,S	22	48	6900	0.08	700
ADWIA-0603CS 4N7 □ T	4.7 @ 250 MHz	B,S	20	47	5800	0.13	700
ADWIA-0603CS 6N8 □ T	6.8 @ 250 MHz	K,J,G	28	60	5800	0.11	700
ADWIA-0603CS 8N2 □ T	8.2 @ 250 MHz	K,J,G	30	62	4600	0.11	700
ADWIA-0603CS 10N □ T	10 @ 250 MHz	K,J,G	30	60	4800	0.15	700
ADWIA-0603CS 12N □ T	12 @ 250 MHz	K,J,G	30	65	4000	0.13	700
ADWIA-0603CS 15N □ T	15 @ 250 MHz	K,J,G	35	69	4000	0.17	700
ADWIA-0603CS 18N □ T	18 @ 250 MHz	K,J,G	35	75	3100	0.17	700
ADWIA-0603CS 22N □ T	22 @ 250 MHz	K,J,G	38	70	3000	0.19	700
ADWIA-0603CS 27N □ T	27 @ 250 MHz	K,J,G	40	75	2800	0.23	700
ADWIA-0603CS 33N □ T	33 @ 250 MHz	K,J,G	43	78	2300	0.23	600
ADWIA-0603CS 39N □ T	39 @ 250 MHz	K,J,G	43	60	2200	0.25	600
ADWIA-0603CS 47N □ T	47 @ 200 MHz	K,J,G	40	65	2000	0.28	600
ADWIA-0603CS 56N □ T	56 @ 200 MHz	K,J,G	40	65	1900	0.31	600
ADWIA-0603CS 68N □ T	68 @ 200 MHz	K,J,G	40	55	1700	0.34	600
ADWIA-0603CS 72N □ T	72 @ 150 MHz	K,J,G	35	53	1700	0.49	400
ADWIA-0603CS 82N □ T	82 @ 150 MHz	K,J,G	35	55	1700	0.54	400
ADWIA-0603CS R10 □ T	100 @ 150 MHz	K,J,G	35	50	1400	0.58	400
ADWIA-0603CS R12 □ T	120 @ 150 MHz	K,J,G	35	40	1300	0.65	300
ADWIA-0603CS R15 □ T	150 @ 150 MHz	K,J,G	30	28	990	0.92	280
ADWIA-0603CS R18 □ T	180 @ 100 MHz	K,J,G	30	22	990	1.25	240
ADWIA-0603CS R22 □ T	220 @ 100 MHz	K,J,G	30	20	900	2.10	200
ADWIA-0603CS R27 □ T	270 @ 100 MHz	K,J,G	30	10	900	2.30	170

¹Inductance is measured in HP-4291B impedance analyzer with HP-16192 fixture. ²Q is measured in HP-4291B impedance analyzer with HP-16192 fixture.

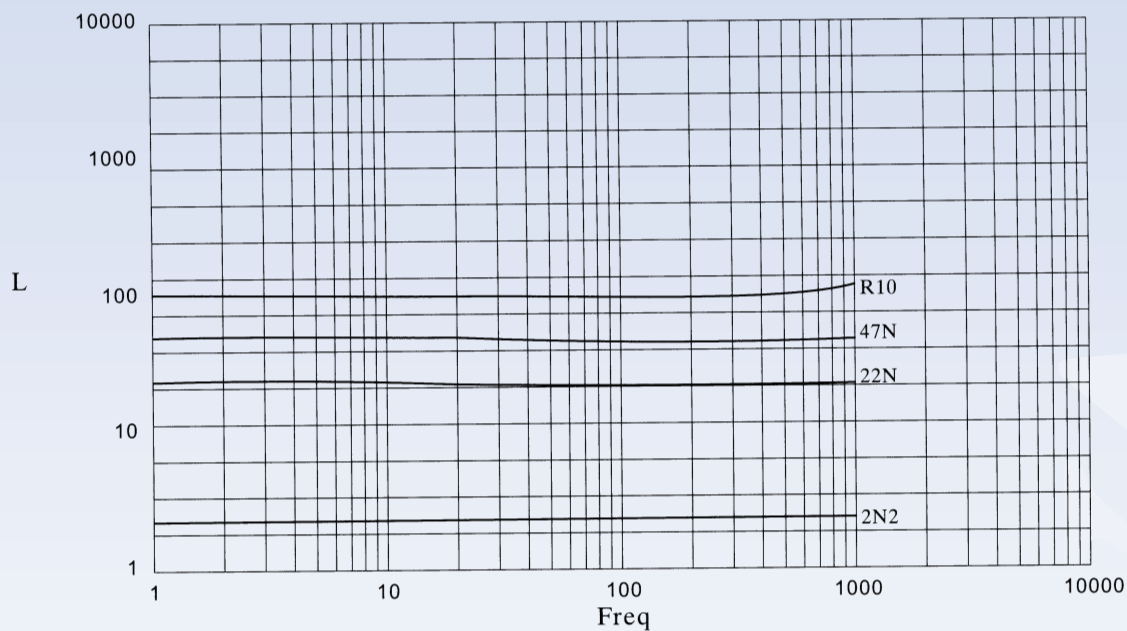
³SRF is measured in HP-8753E RF network analyzer with HP-16192 fixture. ⁴RDC is measured in HP-4338B milliohmeter. ⁵For 15°C Rise.

Wire Wound Chip

Surface Mount

ADWIA Ceramic Series — Continued

ELECTRICAL CHARACTERISTIC
ADWIA-0603CS (1608)



ADWIA-0603CS (1608)

