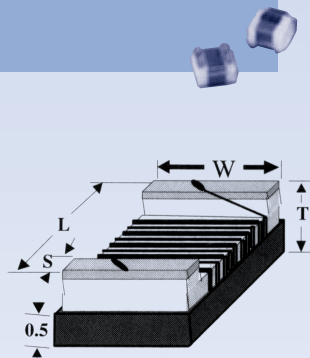


Wire Wound Chip

Surface Mount

ADWIA Series

ADWIA



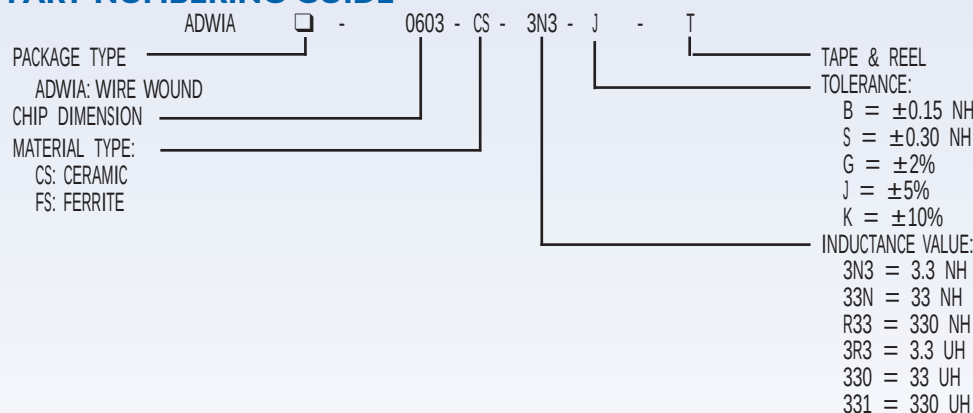
INTRODUCTION

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

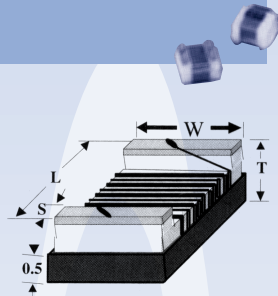
ADWIA-0805CS

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-0805	(0.080 ± 0.008) 2.00 ± 0.2	(0.050 ± 0.008) 1.25 ± 0.2	(0.048 ± 0.008) 1.20 ± 0.2	(0.016 ± 0.004) 0.40 ± 0.1

ADWIA-0805CS (2012) SERIES STANDARD SPECIFICATIONS

PACKAGE TYPE	INDUCTANCE ¹ (nH)	PERCENT TOLERANCE	Q ² min.	S.R.F. ³ min. (MHz)	RDC ⁴ max. (Ω)	IDC ⁵ max. (mA)
ADWIA-0805CS 020 □ T	2.2 @ 250 MHz	B,S	50 @ 1000 MHz	6000	0.06	600
ADWIA-0805CS 027 □ T	2.7 @ 250 MHz	B,S	35 @ 1000 MHz	6000	0.08	600
ADWIA-0805CS 039 □ T	3.9 @ 250 MHz	B,S	60 @ 1000 MHz	6000	0.06	600
ADWIA-0805CS 040 □ T	4.7 @ 250 MHz	B,S	60 @ 1000 MHz	5800	0.06	600
ADWIA-0805CS 050 □ T	5.6 @ 250 MHz	K,J,G	60 @ 1000 MHz	5800	0.08	600
ADWIA-0805CS 060 □ T	6.8 @ 250 MHz	K,J,G	60 @ 1000 MHz	5500	0.06	600
ADWIA-0805CS 080 □ T	8.2 @ 250 MHz	K,J,G	60 @ 1000 MHz	5500	0.06	600
ADWIA-0805CS 100 □ T	10 @ 250 MHz	K,J,G	60 @ 500 MHz	4800	0.08	600
ADWIA-0805CS 120 □ T	12 @ 250 MHz	K,J,G	60 @ 500 MHz	4100	0.08	600
ADWIA-0805CS 150 □ T	15 @ 250 MHz	K,J,G	60 @ 500 MHz	3600	0.08	600
ADWIA-0805CS 180 □ T	18 @ 250 MHz	K,J,G	60 @ 500 MHz	3400	0.08	600
ADWIA-0805CS 220 □ T	22 @ 250 MHz	K,J,G	60 @ 500 MHz	3300	0.10	600
ADWIA-0805CS 270 □ T	27 @ 250 MHz	K,J,G	60 @ 500 MHz	2600	0.12	600
ADWIA-0805CS 330 □ T	33 @ 250 MHz	K,J,G	60 @ 500 MHz	2400	0.15	500
ADWIA-0805CS 390 □ T	39 @ 250 MHz	K,J,G	60 @ 500 MHz	2100	0.18	500
ADWIA-0805CS 470 □ T	47 @ 200 MHz	K,J,G	60 @ 500 MHz	1700	0.15	500
ADWIA-0805CS 560 □ T	56 @ 200 MHz	K,J,G	60 @ 500 MHz	1600	0.25	500
ADWIA-0805CS 680 □ T	68 @ 200 MHz	K,J,G	60 @ 500 MHz	1450	0.27	500
ADWIA-0805CS 820 □ T	82 @ 150 MHz	K,J,G	60 @ 500 MHz	1350	0.32	500
ADWIA-0805CS 101 □ T	100 @ 150 MHz	K,J,G	60 @ 500 MHz	1200	0.43	500
ADWIA-0805CS 121 □ T	120 @ 150 MHz	K,J,G	50 @ 250 MHz	1100	0.48	500
ADWIA-0805CS 151 □ T	150 @ 100 MHz	K,J,G	50 @ 250 MHz	950	0.67	400
ADWIA-0805CS 181 □ T	180 @ 100 MHz	K,J,G	50 @ 250 MHz	900	0.85	350
ADWIA-0805CS 221 □ T	220 @ 100 MHz	K,J,G	50 @ 250 MHz	860	1.10	300
ADWIA-0805CS 271 □ T	270 @ 100 MHz	K,J,G	45 @ 250 MHz	850	1.46	250
ADWIA-0805CS 331 □ T	330 @ 100 MHz	K,J,G	45 @ 250 MHz	800	1.65	200
ADWIA-0805CS 391 □ T	390 @ 100 MHz	K,J,G	45 @ 250 MHz	780	2.20	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.

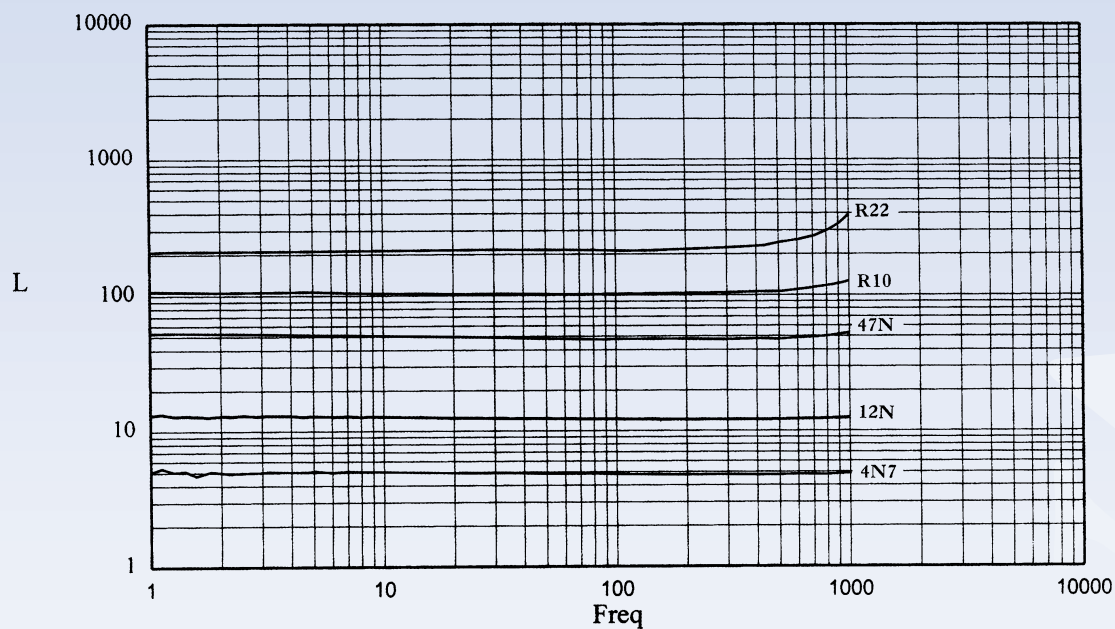
³SRF is measured in HP-8753E RF network analyzer with HP-16192 fixture. ⁴RDC is measured in HP-4338B milliohmeter. ⁵For 15°C Rise.

Wire Wound Chip

Surface Mount

ADWIA Ceramic Series — Continued

ELECTRICAL CHARACTERISTIC
ADWIA-0805CS (2012)



ADWIA-0805CS (2012)

