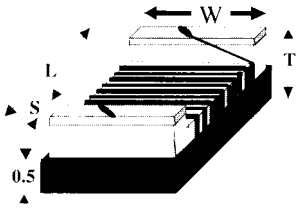
Wire Wound Chip

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: -40ºC to 85ºC.
- 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

ADWIA ❑ - 1608 - CS - 3N3 - J - T

- PACKAGE TYPE
  - ADWIA: WIRE WOUND
- CHIP DIMENSION
- MATERIAL TYPE:
  - CS: CERAMIC
  - FS: FERRITE
- INDUCTANCE VALUE:
  - 3N3 = 3.3 NH
  - 33N = 33 NH
  - R33 = 330 NH
  - 3R3 = 3.3 UH
  - 330 = 33 UH
  - 331 = 330 UH
- TOLERANCE:
  - B = ±0.15 NH
  - S = ±0.30 NH
  - G = ±2%
  - J = ±5%
  - K = ±10%
- TAPE & REEL

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	(0.041 ± 0.008) 1.05 ± 0.2	(0.041 ± 0.008) 1.05 ± 0.2	(0.014 ± 0.004) 0.35 ± 0.1
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-1008	(0.098 ± 0.008) 2.5 ± 0.2	(0.063 ± 0.008) 2.00 ± 0.2	(0.063 ± 0.008) 1.60 ± 0.2	(0.020 ± 0.004) 0.50 ± 0.1
ADWIA-1210	(0.126 ± 0.008) 3.20 ± 0.2	(0.098 ± 0.008) 2.50 ± 0.2	(0.087 ± 0.008) 2.20 ± 0.2	(0.020 ± 0.004) 0.50 ± 0.1

ADIVA Technology, Inc.

ADWIA-1008CS

INTRODUCTION

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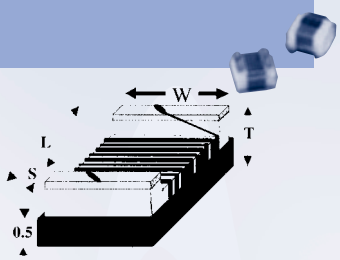

FEATURES

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SPECIFICATIONS

Size	Length (L) (inch) mm	Width (W) (inch) mm	Thickness (T) (inch) mm	Terminal (S) (inch) mm
ADWIA-1008	(0.098 ± 0.008) 2.5 ± 0.2	(0.063 ± 0.008) 2.00 ± 0.2	(0.063 ± 0.008) 1.60 ± 0.2	(0.020 ± 0.004) 0.50 ± 0.1

ADWIA-1008CS (2520) 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-1008CS 030 ❑T	3.3 @ 100 MHz	B,S	50 @ 1000 MHz	6000	0.06	600
ADWIA-1008CS 060 ❑T	6.8 @ 100 MHz	K,J,G	50 @ 1000 MHz	5500	0.06	600
ADWIA-1008CS 080 ❑T	8.2 @ 100 MHz	K,J,G	50 @ 1000 MHz	5500	0.06	600
ADWIA-1008CS 100 ❑T	10 @ 100 MHz	K,J,G	50 @ 1000 MHz	4300	0.08	600
ADWIA-1008CS 120 ❑T	12 @ 100 MHz	K,J,G	60 @ 500 MHz	3600	0.08	600
ADWIA-1008CS 150 ❑T	15 @ 100 MHz	K,J,G	60 @ 500 MHz	2700	0.08	600
ADWIA-1008CS 180 ❑T	18 @ 100 MHz	K,J,G	60 @ 350 MHz	2700	0.10	600
ADWIA-1008CS 220 ❑T	22 @ 100 MHz	K,J,G	60 @ 350 MHz	2500	0.10	600
ADWIA-1008CS 270 ❑T	27 @ 100 MHz	K,J,G	60 @ 350 MHz	1800	0.10	600
ADWIA-1008CS 330 ❑T	33 @ 100 MHz	K,J,G	60 @ 350 MHz	1700	0.10	600
ADWIA-1008CS 390 ❑T	39 @ 100 MHz	K,J,G	60 @ 350 MHz	1500	0.10	600
ADWIA-1008CS 470 ❑T	47 @ 100 MHz	K,J,G	60 @ 350 MHz	1500	0.10	600
ADWIA-1008CS 560 ❑T	56 @ 100 MHz	K,J,G	60 @ 350 MHz	1350	0.12	600
ADWIA-1008CS 680 ❑T	68 @ 100 MHz	K,J,G	60 @ 350 MHz	1300	0.15	600
ADWIA-1008CS 820 ❑T	82 @ 100 MHz	K,J,G	60 @ 350 MHz	1100	0.18	600
ADWIA-1008CS 101 ❑T	100 @ 100 MHz	K,J,G	60 @ 350 MHz	1100	0.18	500
ADWIA-1008CS 121 ❑T	120 @ 25 MHz	K,J,G	50 @ 100 MHz	950	0.20	500
ADWIA-1008CS 151 ❑T	150 @ 25 MHz	K,J,G	50 @ 100 MHz	880	0.22	500
ADWIA-1008CS 181 ❑T	180 @ 25 MHz	K,J,G	50 @ 100 MHz	800	0.33	500
ADWIA-1008CS 221 ❑T	220 @ 25 MHz	K,J,G	45 @ 100 MHz	730	0.45	500
ADWIA-1008CS 271 ❑T	270 @ 25 MHz	K,J,G	45 @ 100 MHz	650	0.75	500
ADWIA-1008CS 331 ❑T	330 @ 25 MHz	K,J,G	45 @ 100 MHz	570	0.90	500
ADWIA-1008CS 391 ❑T	390 @ 25 MHz	K,J,G	45 @ 100 MHz	530	1.20	400
ADWIA-1008CS 471 ❑T	470 @ 25 MHz	K,J,G	45 @ 100 MHz	480	1.30	400
ADWIA-1008CS 561 ❑T	560 @ 25 MHz	K,J,G	45 @ 100 MHz	430	1.45	300
ADWIA-1008CS 681 ❑T	680 @ 25 MHz	K,J,G	45 @ 100 MHz	380	2.45	200
ADWIA-1008CS 751 ❑T	750 @ 25 MHz	K,J,G	45 @ 100 MHz	360	2.60	150
ADWIA-1008CS 821 ❑T	820 @ 25 MHz	K,J,G	45 @ 100 MHz	350	2.75	150
ADWIA-1008CS 911 ❑T	910 @ 25 MHz	K,J,G	45 @ 100 MHz	330	3.25	90
ADWIA-1008CS 102 ❑T	1000 @ 25 MHz	K,J,G	35 @ 50 MHz	310	3.60	90

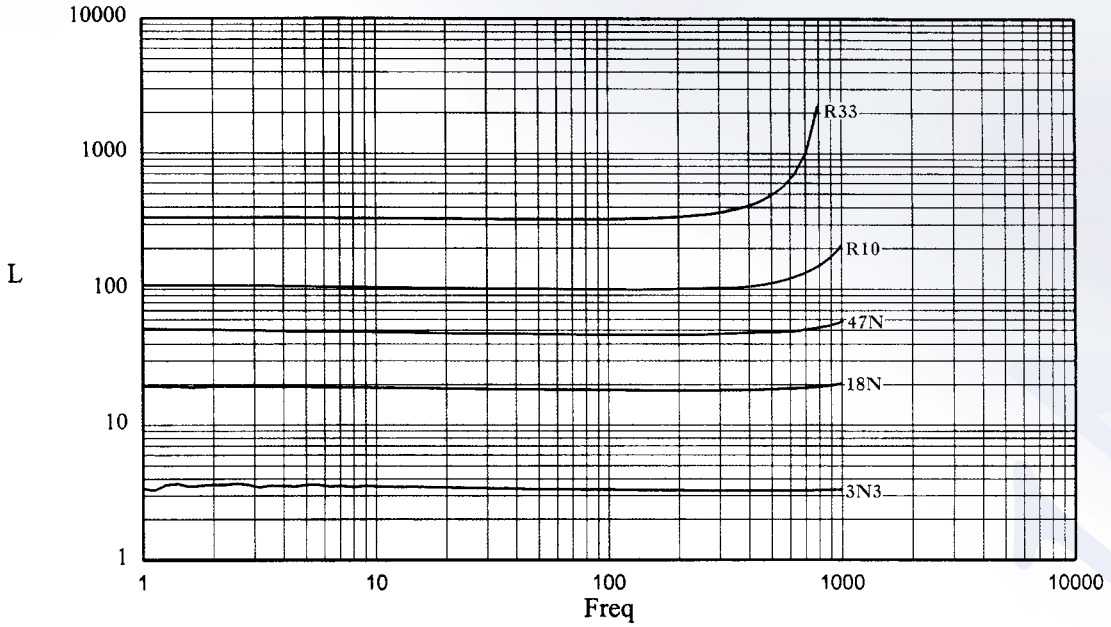
[1]Inductance is measured in HP-4291B impedance analyzer with HP-16192 fixture. [2]Q is measured in HP-4291B impedance analyzer with HP-16192 fixture.
[3]SRF is measured in HP-8753E RF network analyzer with HP-16192 fixture. [4]RDC is measured in HP-4338B millohmeter. [5]For 15ºC Rise.

Wire Wound Chip

Surface Mount

ADWIA Ceramic Series — Continued

ELECTRICAL CHARACTERISTIC
ADWIA-1008CS (2520)



ADWIA-1008CS (2520)