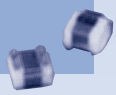
Wire Wound Chip

Surface Mount

ADWIA Series

ADWIA

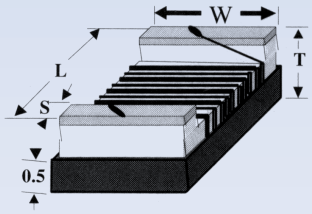


INTRODUCTION

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℃ to 85℃.
- 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 ❑ - 0603 - 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) 1.60 ± 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

ADWIA-0805FS

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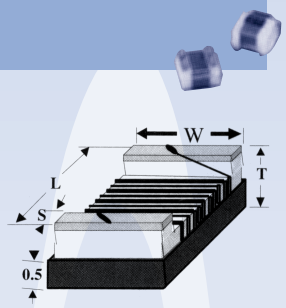

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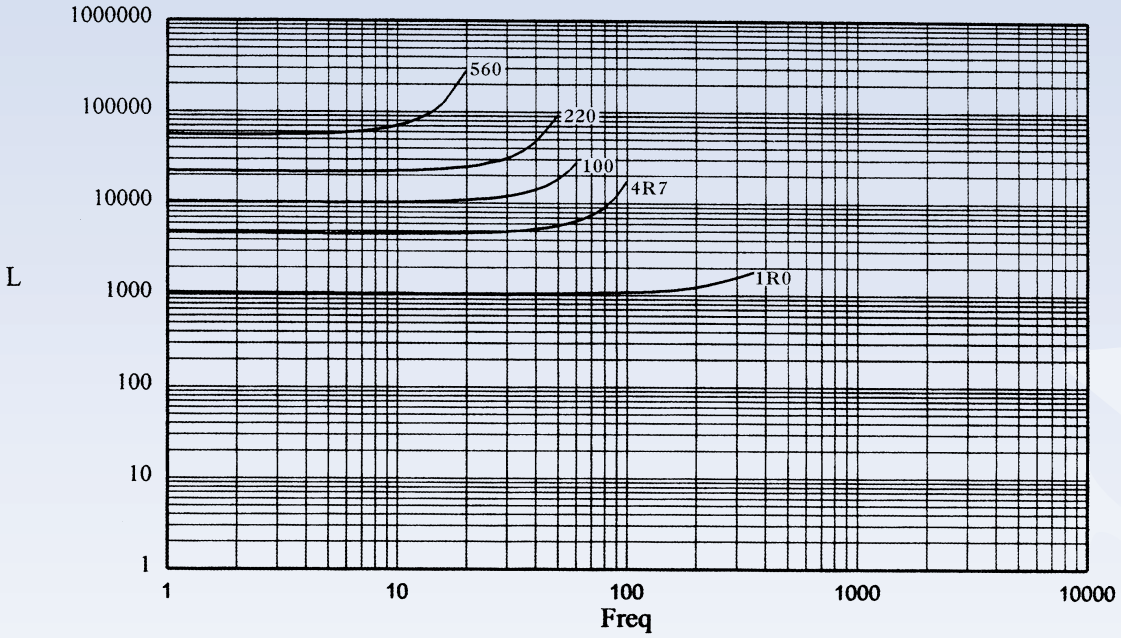
ADWIA-0805FS (2012) SERIES STANDARD SPECIFICATIONS

PACKAGE TYPE	INDUCTANCE[1] (uH)	PERCENT TOLERANCE	Q[2] min.	S.R.F.[3] min. (MHz)	RDC[4] max. (Ω)	IDC[5] max. (mA)
ADWIA-0805FS 471 ❑T	0.47 @ 25 MHz	K,J,G	45 @ 100 MHz	750	0.99	330
ADWIA-0805FS 561 ❑T	0.56 @ 25 MHz	K,J,G	45 @ 100 MHz	730	1.08	300
ADWIA-0805FS 681 ❑T	0.68 @ 25 MHz	K,J,G	35 @ 100 MHz	650	1.20	280
ADWIA-0805FS 821 ❑T	0.82 @ 25 MHz	K,J,G	35 @ 100 MHz	550	2.21	150
ADWIA-0805FS 102 ❑T	1.0 @ 25 MHz	K,J,G	35 @ 50 MHz	480	2.50	120
ADWIA-0805FS 122 ❑T	1.2 @ 7.96 MHz	K,J,G	15 @ 7.96 MHz	220	0.85	400
ADWIA-0805FS 152 ❑T	1.5 @ 7.96 MHz	K,J,G	15 @ 7.96 MHz	200	1.00	350
ADWIA-0805FS 182 ❑T	1.8 @ 7.96 MHz	K,J,G	15 @ 7.96 MHz	120	1.05	350
ADWIA-0805FS 222 ❑T	2.2 @ 7.96 MHz	K,J,G	15 @ 7.96 MHz	100	1.15	320
ADWIA-0805FS 272 ❑T	2.7 @ 7.96 MHz	K,J,G	15 @ 7.96 MHz	100	1.25	320
ADWIA-0805FS 332 ❑T	3.3 @ 7.96 MHz	K,J,G	15 @ 7.96 MHz	70	1.45	300
ADWIA-0805FS 392 ❑T	3.9 @ 7.96 MHz	K,J,G	15 @ 7.96 MHz	60	1.60	270
ADWIA-0805FS 472 ❑T	4.7 @ 7.96 MHz	K,J,G	15 @ 7.96 MHz	50	1.75	270
ADWIA-0805FS 562 ❑T	5.6 @ 7.96 MHz	K,J,G	15 @ 7.96 MHz	45	1.95	230
ADWIA-0805FS 682 ❑T	6.8 @ 7.96 MHz	K,J,G	15 @ 7.96 MHz	45	2.15	230
ADWIA-0805FS 822 ❑T	8.2 @ 7.96 MHz	K,J,G	15 @ 7.96 MHz	40	2.95	150
ADWIA-0805FS 103 ❑T	10 @ 7.96 MHz	K,J,G	10 @ 7.96 MHz	40	3.15	150

[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 15°C Rise.

ELECTRICAL CHARACTERISTIC
ADWIA-0805FS (2012)



ADWIA-0805FS (2012)