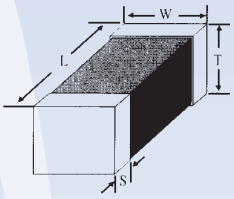
ADMLIA



INTRODUCTION

The ADMLIA series are chip inductors widely used in the communication applications such as cellular phones, pagers, computers and other electronic devices. The device features in magnetic shielding which avoids cross coupling and crosstalk.

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

ADMLIA ❑ - 1608 - FS - 68N - K - T

PACKAGE TYPE
ADMLIA: MULTILAYER
CHIP DIMENSION
MATERIAL TYPE:
CS: CERAMIC
FS: FERRITE

TAPE & REEL
TOLERANCE:
B = ±0.15 NH
S = ±0.30 NH
G = ±2%
J = ±5%
K = ±10%
INDUCTANCE VALUE:
S = ±0.30 nH
D = ±0.50 nH
J = ±5%
K = ±10%
M = ±20%

SPECIFICATIONS

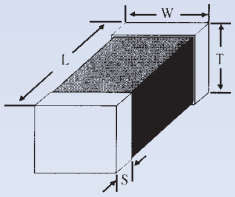
SIZE	LENGTH (L) (inch) mm	WIDTH (W) (inch) mm	THICKNESS (T) (inch) mm	TERMINAL (B) (inch) mm
ADMLIA-1608	(0.063 ± 0.006) 1.60 ± 0.15	(0.031 ± 0.006) 0.80 ± 0.15	(0.031 ± 0.006) 0.80 ± 0.15	(0.016 ± 0.004) 0.30 ± 0.1
ADMLIA-2012	(0.080 ± 0.008) 2.00 ± 0.2	(0.050 ± 0.008) 1.25 ± 0.2	(0.033 ± 0.008) 0.85 ± 0.2	(0.020 ± 0.012) 0.50 ± 0.30
ADMLIA-2012	(0.080 ± 0.008) 2.00 ± 0.2	(0.050 ± 0.008) 1.25 ± 0.2	(0.050 ± 0.008) 1.25 ± 0.2	(0.020 ± 0.012) 0.50 ± 0.30

Multilayer Chip

Surface Mount

ADMLIA Ferrite Series

ADMLIA-1608FS



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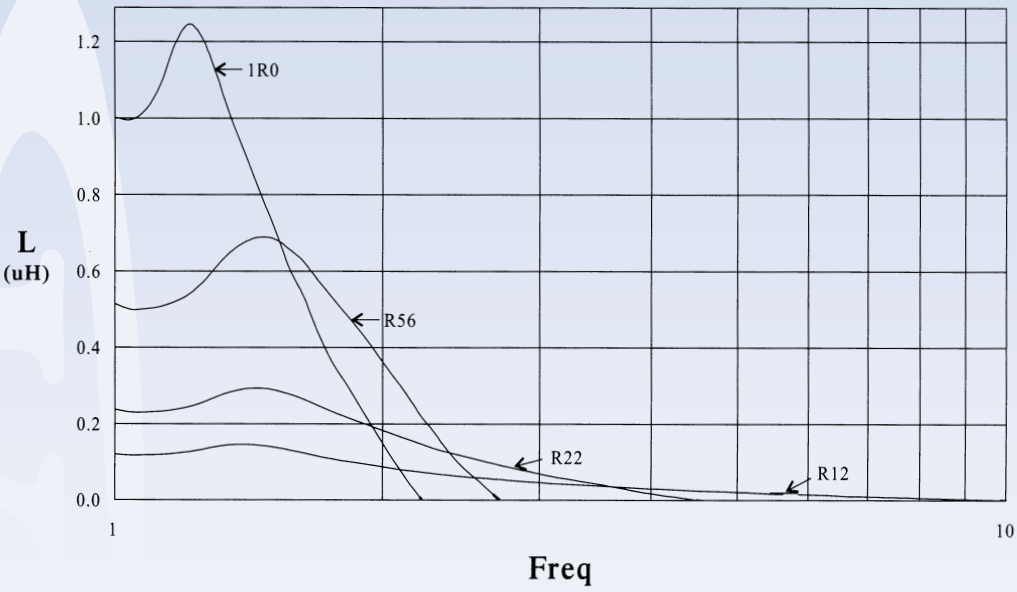
ADMLIA-1608FS (0603) SERIES STANDARD SPECIFICATIONS

PACKAGE TYPE	INDUCTANCE[1] (uH)	PERCENT TOLERANCE	Q[2] min.	S.R.F.[3] min. (MHz)	RDC[4] max. (Ω)	IDC[5] max. (mA)
ADMLIA-1608FS 47N ❑T	0.047 @ 50 MHz	M	10 @ 50 MHz	260	0.30	50
ADMLIA-1608FS 68N ❑T	0.068 @ 50 MHz	M	10 @ 50 MHz	250	0.30	50
ADMLIA-1608FS 82N ❑T	0.082 @ 50 MHz	M	10 @ 50 MHz	245	0.30	50
ADMLIA-1608FS R10 ❑T	0.10 @ 25 MHz	K,M	15 @ 25 MHz	240	0.50	50
ADMLIA-1608FS R12 ❑T	0.12 @ 25 MHz	K,M	15 @ 25 MHz	205	0.50	50
ADMLIA-1608FS R15 ❑T	0.15 @ 25 MHz	K,M	15 @ 25 MHz	180	0.60	50
ADMLIA-1608FS R18 ❑T	0.18 @ 25 MHz	K,M	15 @ 25 MHz	165	0.60	50
ADMLIA-1608FS R22 ❑T	0.22 @ 25 MHz	K,M	15 @ 25 MHz	150	0.80	50
ADMLIA-1608FS R27 ❑T	0.27 @ 25 MHz	K,M	15 @ 25 MHz	136	0.80	50
ADMLIA-1608FS R33 ❑T	0.33 @ 25 MHz	K,M	15 @ 25 MHz	125	0.85	35
ADMLIA-1608FS R39 ❑T	0.39 @ 25 MHz	K,M	15 @ 25 MHz	110	1.00	35
ADMLIA-1608FS R47 ❑T	0.47 @ 25 MHz	K,M	15 @ 25 MHz	105	1.35	35
ADMLIA-1608FS R56 ❑T	0.56 @ 25 MHz	K,M	15 @ 25 MHz	95	1.55	35
ADMLIA-1608FS R68 ❑T	0.68 @ 25 MHz	K,M	15 @ 25 MHz	90	1.70	35
ADMLIA-1608FS R82 ❑T	0.82 @ 25 MHz	K,M	15 @ 25 MHz	85	2.10	35
ADMLIA-1608FS 1R0 ❑T	1.0 @ 10 MHz	K,M	35 @ 10 MHz	75	0.60	25
ADMLIA-1608FS 1R2 ❑T	1.2 @ 10 MHz	K,M	35 @ 10 MHz	65	0.80	25
ADMLIA-1608FS 1R5 ❑T	1.5 @ 10 MHz	K,M	35 @ 10 MHz	60	0.80	25
ADMLIA-1608FS 1R8 ❑T	1.8 @ 10 MHz	K,M	35 @ 10 MHz	55	0.95	25
ADMLIA-1608FS 2R2 ❑T	2.2 @ 10 MHz	K,M	35 @ 10 MHz	50	1.15	15
ADMLIA-1608FS 2R7 ❑T	2.7 @ 10 MHz	K,M	35 @ 10 MHz	45	1.35	15
ADMLIA-1608FS 3R3 ❑T	3.3 @ 10 MHz	K,M	35 @ 10 MHz	40	1.55	15
ADMLIA-1608FS 3R9 ❑T	3.9 @ 10 MHz	K,M	35 @ 10 MHz	35	1.70	15
ADMLIA-1608FS 4R7 ❑T	4.7 @ 10 MHz	K,M	35 @ 10 MHz	33	2.10	15
ADMLIA-1608FS 5R6 ❑T	5.6 @ 4 MHz	K,M	35 @ 4 MHz	22	1.55	5
ADMLIA-1608FS 6R8 ❑T	6.8 @ 4 MHz	K,M	35 @ 4 MHz	20	1.70	5
ADMLIA-1608FS 8R2 ❑T	8.2 @ 4 MHz	K,M	35 @ 4 MHz	18	2.10	5
ADMLIA-1608FS 100 ❑T	10 @ 2 MHz	K,M	30 @ 2 MHz	17	1.85	3

[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
ADMLIA-1608FS (0603)



ADMLIA-1608FS (0603)