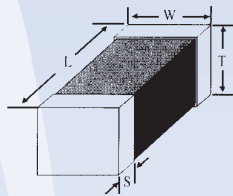


ADMLIA



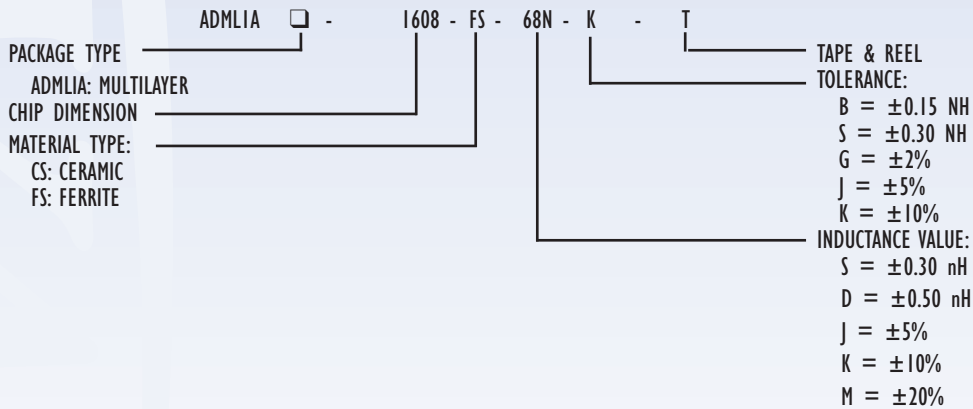
INTRODUCTION

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



SPECIFICATIONS

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

Multilayer Chip

Surface Mount

ADMLIA Ferrite Series

XTAL

OSC

VCXO
VCO

TCXO
VCTCXO

FLTR

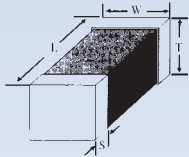
RES

IND

INDUCTORS

119

ADMLIA-2012FS



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.

SPECIFICATIONS

SIZE	LENGTH (A) (inch) mm	WIDTH (B) (inch) mm	THICKNESS (C) (inch) mm	TERMINAL (S) (inch) mm
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

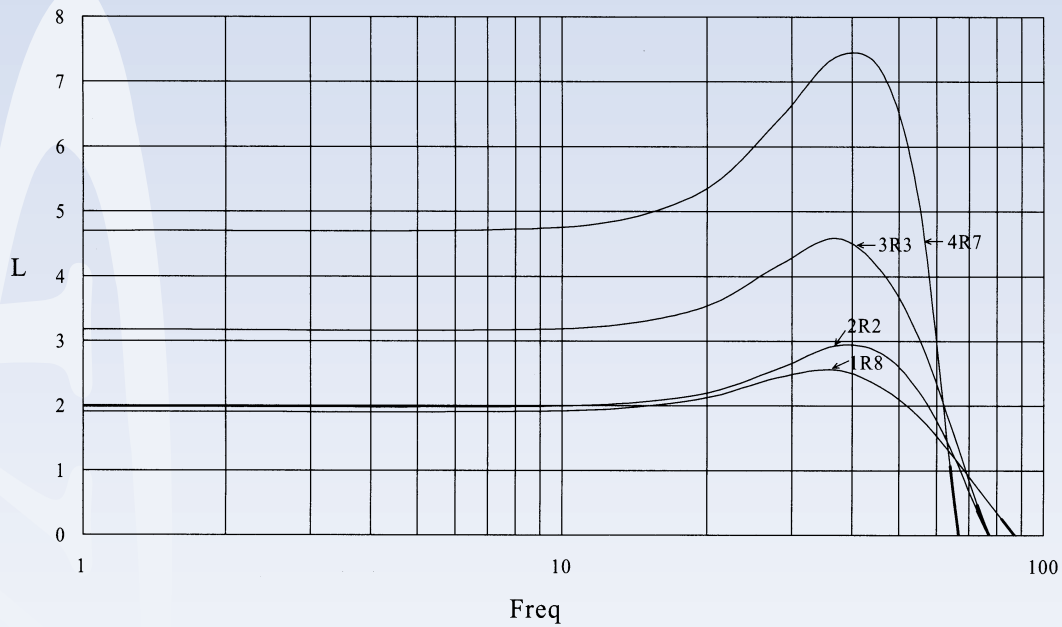
ADMLIA-2012FS (0805) SERIES STANDARD SPECIFICATIONS

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-2012FS 47N □T	0.047 @ 50 MHz	M	15 @ 50 MHz	320	0.20	300
ADMLIA-2012FS 68N □T	0.068 @ 50 MHz	M	15 @ 50 MHz	280	0.20	300
ADMLIA-2012FS 82N □T	0.082 @ 50 MHz	M	15 @ 50 MHz	255	0.20	300
ADMLIA-2012FS R10 □T	0.10 @ 25 MHz	K,M	20 @ 25 MHz	235	0.30	250
ADMLIA-2012FS R12 □T	0.12 @ 25 MHz	K,M	20 @ 25 MHz	220	0.30	250
ADMLIA-2012FS R15 □T	0.15 @ 25 MHz	K,M	20 @ 25 MHz	200	0.40	250
ADMLIA-2012FS R18 □T	0.18 @ 25 MHz	K,M	20 @ 25 MHz	185	0.40	250
ADMLIA-2012FS R22 □T	0.22 @ 25 MHz	K,M	20 @ 25 MHz	170	0.50	250
ADMLIA-2012FS R27 □T	0.27 @ 25 MHz	K,M	20 @ 25 MHz	150	0.50	250
ADMLIA-2012FS R33 □T	0.33 @ 25 MHz	K,M	20 @ 25 MHz	145	0.55	250
ADMLIA-2012FS R39 □T	0.39 @ 25 MHz	K,M	25 @ 25 MHz	135	0.65	200
ADMLIA-2012FS R47 □T	0.47 @ 25 MHz	K,M	25 @ 25 MHz	125	0.65	200
ADMLIA-2012FS R56 □T	0.56 @ 25 MHz	K,M	25 @ 25 MHz	115	0.75	150
ADMLIA-2012FS R68 □T	0.68 @ 25 MHz	K,M	25 @ 25 MHz	105	0.80	150
ADMLIA-2012FS R82 □T	0.82 @ 25 MHz	K,M	25 @ 25 MHz	100	1.00	150
ADMLIA-2012FS 1R0 □T	1.0 @ 10 MHz	K,M	45 @ 10 MHz	75	0.40	50
ADMLIA-2012FS 1R2 □T	1.2 @ 10 MHz	K,M	45 @ 10 MHz	65	0.50	50
ADMLIA-2012FS 1R5 □T	1.5 @ 10 MHz	K,M	45 @ 10 MHz	60	0.50	50
ADMLIA-2012FS 1R8 □T	1.8 @ 10 MHz	K,M	45 @ 10 MHz	55	0.60	50
ADMLIA-2012FS 2R2 □T	2.2 @ 10 MHz	K,M	45 @ 10 MHz	50	0.65	30
ADMLIA-2012FS 2R7 □T	2.7 @ 10 MHz	K,M	45 @ 10 MHz	45	0.75	30
ADMLIA-2012FS 3R3 □T	3.3 @ 10 MHz	K,M	45 @ 10 MHz	41	0.80	30
ADMLIA-2012FS 3R9 □T	3.9 @ 10 MHz	K,M	45 @ 10 MHz	38	0.90	30
ADMLIA-2012FS 4R7 □T	4.7 @ 10 MHz	K,M	45 @ 10 MHz	35	1.00	30
ADMLIA-2012FS 5R6 □T	5.6 @ 4 MHz	K,M	50 @ 4 MHz	32	0.90	15
ADMLIA-2012FS 6R8 □T	6.8 @ 4 MHz	K,M	50 @ 4 MHz	29	1.00	15
ADMLIA-2012FS 8R2 □T	8.2 @ 4 MHz	K,M	50 @ 4 MHz	26	1.10	15
ADMLIA-2012FS 100 □T	10 @ 2 MHz	K,M	50 @ 2 MHz	24	1.15	15
ADMLIA-2012FS 120 □T	12 @ 2 MHz	K,M	50 @ 2 MHz	22	1.25	15
ADMLIA-2012FS 150 □T	15 @ 1 MHz	K,M	30 @ 1 MHz	19	0.80	5
ADMLIA-2012FS 180 □T	18 @ 1 MHz	K,M	30 @ 1 MHz	18	0.90	5
ADMLIA-2012FS 220 □T	22 @ 1 MHz	K,M	30 @ 1 MHz	16	1.10	5
ADMLIA-2012FS 270 □T	27 @ 1 MHz	K,M	30 @ 1 MHz	14	1.15	5
ADMLIA-2012FS 330 □T	33 @ 0.4 MHz	K,M	30 @ .4 MHz	13	1.25	5

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

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

ELECTRICAL CHARACTERISTIC
ADMLIA-2012FS (0805)



ADMLIA-2012FS (0805)

