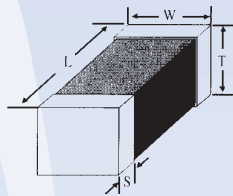


ADMLIA



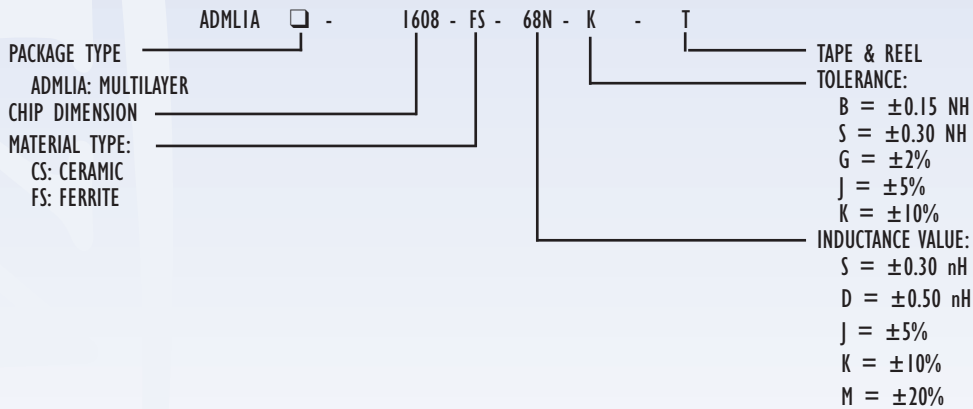
INTRODUCTION

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

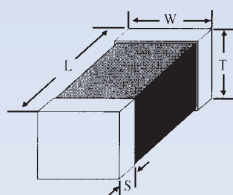
SIZE	LENGTH (L) (inch) mm	WIDTH (W) (inch) mm	THICKNESS (T) (inch) mm	TERMINAL (B) (inch) mm
ADMLIA-1608	(0.063 ± 0.006) 1.60 ± 0.15	(0.031 ± 0.006) 0.80 ± 0.15	(0.031 ± 0.006) 0.80 ± 0.15	(0.016 ± 0.004) 0.30 ± 0.1
ADMLIA-2012	(0.080 ± 0.008) 2.00 ± 0.2	(0.050 ± 0.008) 1.25 ± 0.2	(0.033 ± 0.008) 0.85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

ADMLIA-I608CS



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-I608	(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-I608CS (0603) SERIES STANDARD SPECIFICATIONS

PACKAGE TYPE	INDUCTANCE ¹ (nH)	PERCENT TOLERANCE	Q ² min.	Q ² TYPICAL @ 900 MHz	S.R.F. ³ min. (MHz)	RDC ⁴ max. (Ω)	IDC ⁵ max. (mA)
ADMLIA-I608CS 1N5 □ T	1.5	S	8	100	10000	0.10	500
ADMLIA-I608CS 1N8 □ T	1.8	S	8	100	9800	0.12	500
ADMLIA-I608CS 2N2 □ T	2.2	S	8	100	7600	0.20	500
ADMLIA-I608CS 2N7 □ T	2.7	S	8	100	7000	0.20	500
ADMLIA-I608CS 3N3 □ T	3.3	S	8	100	6200	0.20	500
ADMLIA-I608CS 3N9 □ T	3.9	S	8	100	5600	0.20	500
ADMLIA-I608CS 4N7 □ T	4.7	S	8	100	4800	0.20	500
ADMLIA-I608CS 5N6 □ T	5.6	D	8	100	4600	0.30	500
ADMLIA-I608CS 6N8 □ T	6.8	D	8	100	4200	0.30	500
ADMLIA-I608CS 8N2 □ T	8.2	D	8	100	3600	0.30	500
ADMLIA-I608CS 10N □ T	10	J,K	8	100	3200	0.50	300
ADMLIA-I608CS 12N □ T	12	J,K	8	100	2800	0.50	300
ADMLIA-I608CS 15N □ T	15	J,K	8	100	2600	0.60	300
ADMLIA-I608CS 18N □ T	18	J,K	8	100	2400	0.60	300
ADMLIA-I608CS 22N □ T	22	J,K	8	100	2000	0.60	300
ADMLIA-I608CS 27N □ T	27	J,K	8	100	1900	0.80	300
ADMLIA-I608CS 33N □ T	33	J,K	8	100	1600	0.80	300
ADMLIA-I608CS 39N □ T	39	J,K	8	100	1400	0.80	300
ADMLIA-I608CS 47N □ T	47	J,K	8	100	1200	1.00	200
ADMLIA-I608CS 56N □ T	56	J,K	8	100	1000	1.00	200
ADMLIA-I608CS 68N □ T	68	J,K	8	100	900	1.00	200
ADMLIA-I608CS 82N □ T	82	J,K	8	100	800	1.00	200
ADMLIA-I608CS R10 □ T	100	J,K	8	100	700	1.00	200
ADMLIA-I608CS R12 □ T	120	J,K	8	50	600	1.20	300
ADMLIA-I608CS R15 □ T	150	J,K	8	50	500	1.20	300
ADMLIA-I608CS R18 □ T	180	J,K	8	50	400	1.30	300
ADMLIA-I608CS R22 □ T	220	J,K	8	50	400	1.20	300

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 milliohmmeter. ⁵For 15°C Rise.

XTAL

OSC

VCXO
VCO

TCXO
VCTCXO

FLTR

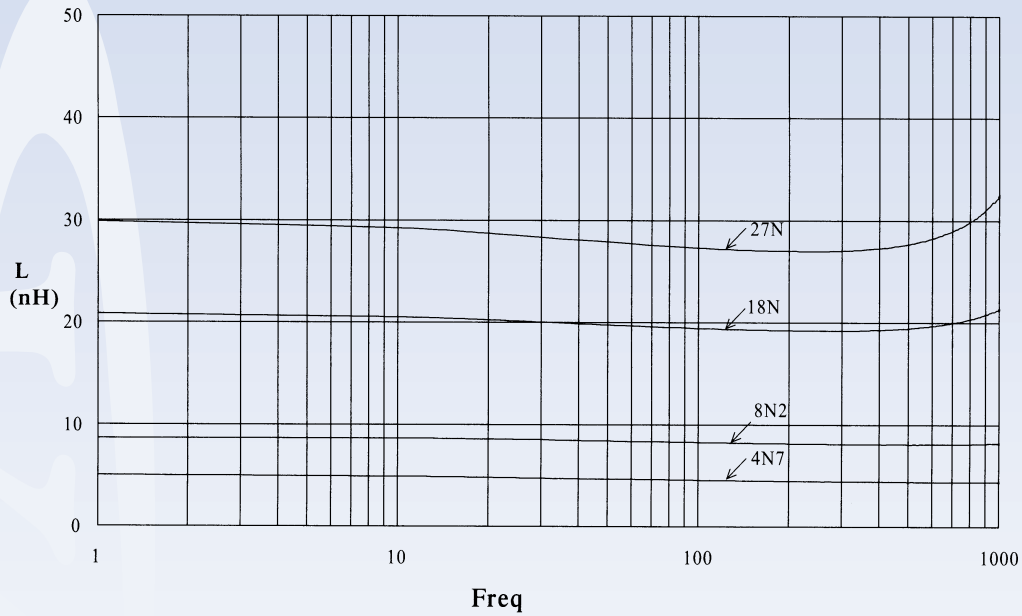
RES

IND

INDUCTORS

115

ELECTRICAL CHARACTERISTIC
ADMLIA-1608CS (0603)



ADMLIA-1608CS (0603)

