SCOPE：

This specification applies to the high current type Radial Leaded Inductor for MCD-0608S-SERIES

PRODUCT INDENTIFICATION

MCD - 0608S - 330 M

① ② ③ ④

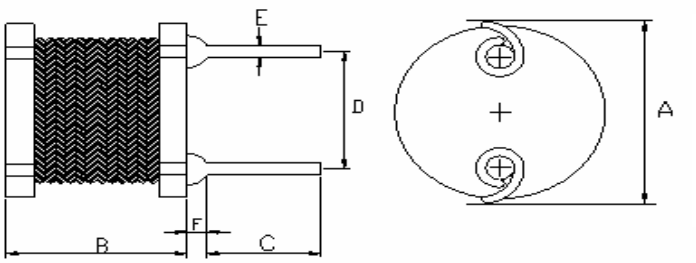
① Product Code

② Dimensions Code

③ Inductance Code

④ Tolerance Code

(1) SHAPES AND DIMENSIONS



A:	**7.8 Max.**	**mm**
B:	**8.5 Max.**	**mm**
C:	**15.0±2.0**	**mm**
D:	**3.0±0.5**	**mm**
E:	**φ0.65±0.1**	**mm**
F:	**2.0 Max.**	**mm**

(2) ELECTRICAL SPECIFICATIONS

SEE TABLE 1

TEST INSTRUMENTS

L ：HP 4284A PRECISION LCR METER (or equivalent)

RDC : CHROMA MODEL 16502 MILLIOHMMETER (or equivalent)

(3) CHARACTERISTICS

(3)-1 Operate temperature range ..... －40℃～＋125℃

(Including self temp. rise)

(3)-2 Storage temperature range ..... －40℃～＋125℃

TABLE 1

MAGLAYERS PT/NO.	Inductance L(μH)	Percent Tolerance	Test Frequency	Resistance RDC(Ω)Max.	Rated DC Current	
					Isat(A)	Irms(A)
MCD-0608S-1R0□	1.0	M	100kHz/0.25V	11.5m	8.00	7.50
MCD-0608S-1R2□	1.2	M	100kHz/0.25V	13m	7.50	7.00
MCD-0608S-2R2□	2.2	M	100kHz/0.25V	16m	7.00	6.00
MCD-0608S-3R3□	3.3	M	100kHz/0.25V	19m	5.50	5.00
MCD-0608S-4R7□	4.7	M	100kHz/0.25V	23m	4.00	4.20
MCD-0608S-100□	10	K,M	100kHz/0.25V	0.13	2.40	3.00
MCD-0608S-150□	15	K,M	100kHz/0.25V	0.19	1.30	2.70
MCD-0608S-220□	22	K,M	100kHz/0.25V	0.30	1.15	2.00
MCD-0608S-270□	27	K,M	100kHz/0.25V	0.40	1.10	1.80
MCD-0608S-330□	33	K,M	100kHz/0.25V	0.55	1.05	1.75
MCD-0608S-390□	39	K,M	100kHz/0.25V	0.59	1.00	1.50
MCD-0608S-470□	47	K,M	100kHz/0.25V	0.61	0.95	1.20
MCD-0608S-500□	50	K,M	100kHz/0.25V	0.62	0.93	1.10
MCD-0608S-680□	68	K,M	100kHz/0.25V	0.65	0.83	1.00
MCD-0608S-101□	100	K,M	100kHz/0.25V	0.74	0.70	0.95
MCD-0608S-151□	150	K,M	100kHz/0.25V	0.80	0.62	0.85
MCD-0608S-181□	180	K,M	100kHz/0.25V	0.84	0.60	0.70
MCD-0608S-221□	220	K,M	100kHz/0.25V	0.89	0.49	0.60
MCD-0608S-331□	330	K,M	100kHz/0.25V	1.08	0.41	0.65
MCD-0608S-351□	350	K,M	100kHz/0.25V	1.24	0.39	0.60
MCD-0608S-391□	390	K,M	100kHz/0.25V	1.32	0.37	0.50
MCD-0608S-471□	470	K,M	100kHz/0.25V	1.45	0.32	0.40
MCD-0608S-561□	560	K,M	100kHz/0.25V	2.00	0.29	0.40
MCD-0608S-681□	680	K,M	100kHz/0.25V	2.50	0.26	0.38
MCD-0608S-821□	820	K,M	100kHz/0.25V	3.00	0.22	0.35
MCD-0608S-102□	1000	K,M	100kHz/0.25V	2.30	0.20	0.33
MCD-0608S-152□	1500	J,K	10kHz/0.25V	4.50	0.18	0.27
MCD-0608S-202□	2000	K,M	10kHz/0.25V	5.00	0.14	0.22
MCD-0608S-222□	2200	K,M	10kHz/0.25V	6.30	0.13	0.22
MCD-0608S-242□	2400	K,M	10kHz/0.25V	7.26	0.13	0.22
MCD-0608S-302□	3000	K,M	10kHz/0.25V	10.20	0.10	0.18
MCD-0608S-332□	3300	K,M	10kHz/0.25V	10.80	0.09	0.16

※ □ specify the inductance tolerance , J(±5%) , K(±10%) , M(±20%)

Isat： Based on inductance change （△L/Lo：drop 10% Max.) @ambient temperature 25℃

Irms： Based on temperature rise （△T： 40℃ TYP.)

Rated DC Current： The less value which is Isat or Irms.

(4) RELIABILITY TEST METHOD

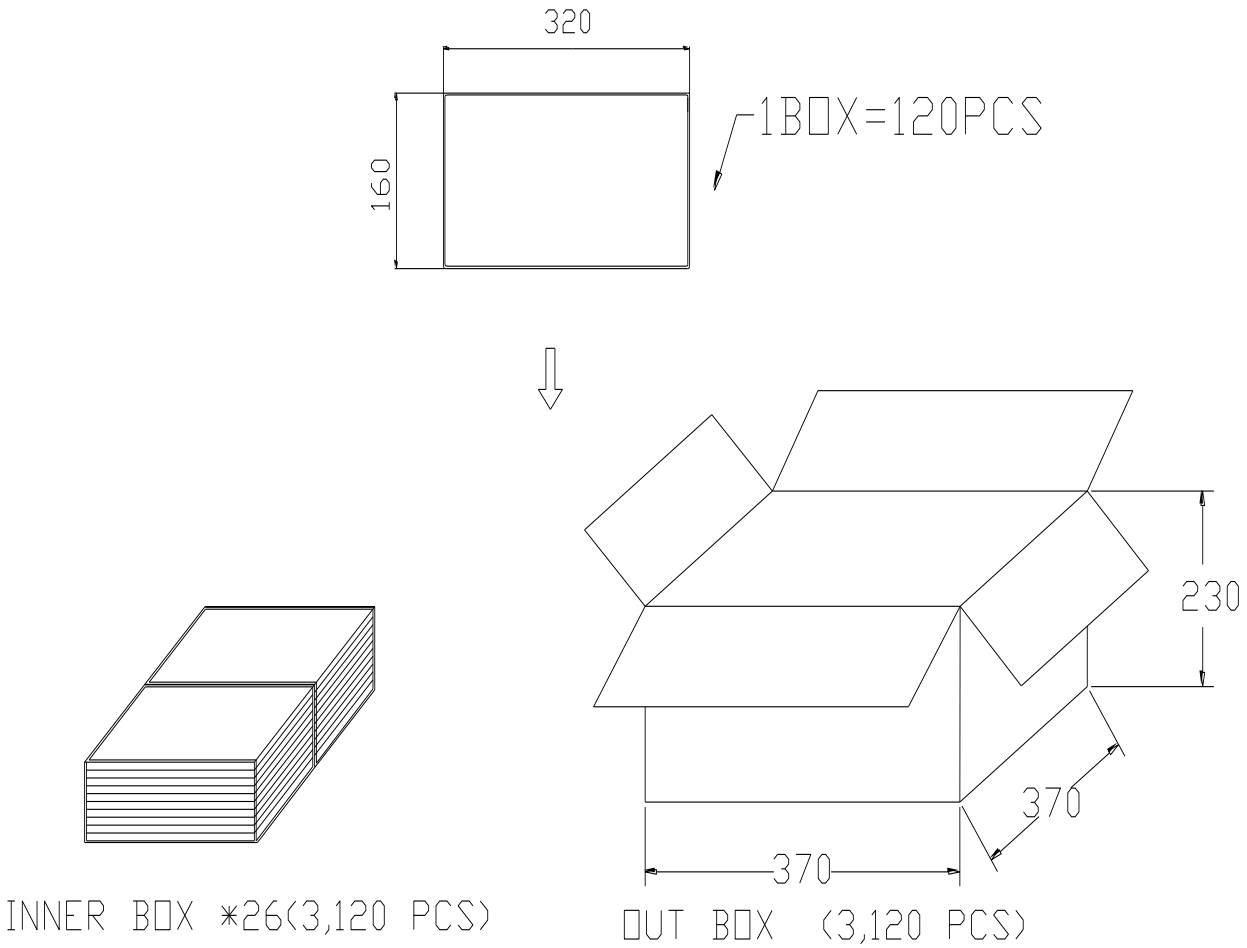
MECHANICAL

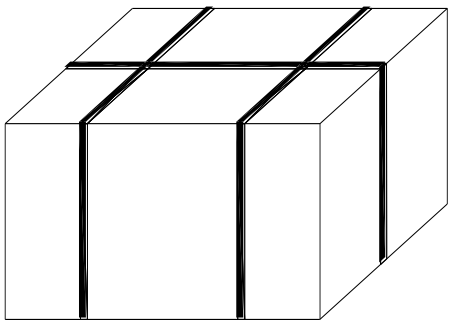
NO.	ITEMS	SPECIFICATIONS	CONDITIONS
1	Solderability test	More than 90% of the termnial electrode should be covered with solder.	Dipping: 245 ± 5 ℃, 3 ± 1 seconds
2	lead tensile strength test	1.0 Kg MIN.	The lead of product is pulled with a load of 1.0kg mininum until lead breakdown. The tensile force shall be recorded.
3	Vibration test	△L/L≦±7% Visual:OK	The product is fixed ento the vibration with amplitude of 1.52m/m at a frequency of 10～55Hz sweeping for lmin. The vibration is done at X,Y, Z direction respectively for 2 houes, totally 6 hours.
4	Soldering heat resistance test	Visual:OK Circuit:OK	The leads of product are dipped into a solder pot of 260±5℃ for a duration of 10±1sec. Nothing particular on visual and open circuitry as a result of ore testing.

ENVIRONMENTAL

NO.	ITEMS	SPECIFICATIONS	CONDITIONS
1	Humidity endurance test	△L/L≦±5%	The product is placed in a chamber of 40±2℃, 90～95%RH for 96 hours. Measurement is done after the reaovery of 4～24 hours.
2	High temp endurance test	△L/L≦±5%	The product is placed in a chamber of 125±2℃, for 72 hours. Measurement is done after recovery of 4～24 hours.
3	Low temp test	△L/L≦±5%	The product is placed in a chamber of -40±2℃, for 96 hours. Measurement is done after recovery of 4～24 hours.
4	Thermal shock test	△L/L≦±5%	The specimens are placed in a chamber and the temp is then lowered to -40±2℃ for one hour. The temp will raised to +125±2℃ for one hour. This constitues one cycle. Ten cycles of such testing shall be completed. Measurement is made after recovery for 4～24 hours from the completion of testing.

(5) PACKAGE SPECIFICATION (mm)





Please note that the contents may change without any prior notice due to reasons such as upgrading.