

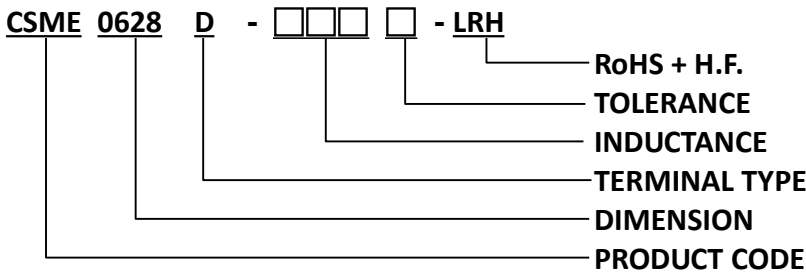


PRODUCT SPECIFICATION

DOCUMENT NO. ENS000153840

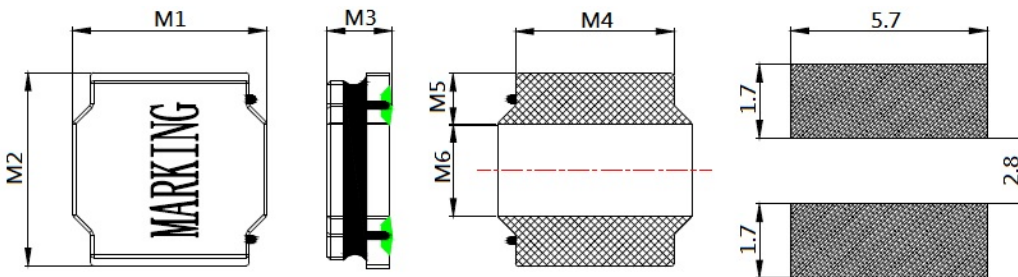
DESCRIPTION	DRAWN BY	DESIGNED BY	CHECKED BY	APPROVED BY
CSME0628D-XXXX-LRH	Zhouling Tang	Shengjun Zhou	Shengjun Zhou	Dick Wang

1. PART NUMBER IDENTIFICATION



2. MECHANICAL DIMENSION

UNIT: mm

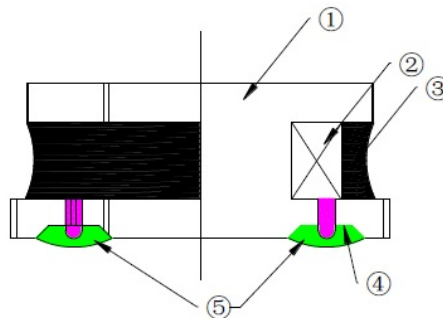


	DIM.	TOL.
M1	6.0	±0.3
M2	6.0	±0.3
M3	2.8	MAX.
M4	4.9	±0.3
M5	1.55	±0.3
M6	2.90	±0.3

3. RATING TEMPERATURE

OPERATING TEMPERATURE RANGE: -40°C~ +125°C (Including coil's self temperature rise).
 STORAGE TEMPERATURE RANGE: -40°C~ +105°C

4. STRUCTURE



5. MATERIAL LIST

NO	PARTS	MATERIAL
1	DRUM CORE	Ni-Zn FERRITE CORE
2	WIRE	POLYURETHANE ENAMELED COPPER WIRE
3	ADHESIVE	EPOXY RESIN MAGNETIC POWDER
4	PLATING ELECTRODES	PLATING: Ag 10-20 um Ni 1-3 um Sn 3-7 um
5	OUTER ELECTRODES	TOP SURFACE SOLDER COATING Sn99%、Ag0.3%、Cu0.7%

6. ELECTRICAL SPECIFICATION

Part number	Inductance (μH)	Inductance Tolerance	Test Frequency (KHz/V)	DC Resistance (mΩ) ±30%	Isat (A)	Irms (A)	Marling
CSME0628D-R90□-LRH	0.9	N	100/0.25	13	6.70	4.60	R90
CSME0628D-1R5□-LRH	1.5	N	100/0.25	16	5.10	4.20	1R5
CSME0628D-2R2□-LRH	2.2	N、M	100/0.25	20	4.20	3.70	2R2
CSME0628D-3R0□-LRH	3.0	N	100/0.25	23	3.60	3.40	3R0
CSME0628D-3R3□-LRH	3.3	N	100/0.25	25	3.63	3.40	3R3
CSME0628D-4R7□-LRH	4.7	M	100/0.25	31	2.70	3.00	4R7
CSME0628D-6R0□-LRH	6.0	M	100/0.25	40	2.50	2.50	6R0
CSME0628D-6R8□-LRH	6.8	M	100/0.25	56	2.60	2.40	6R8
CSME0628D-100□-LRH	10	M	100/0.25	65	1.90	1.90	100
CSME0628D-150□-LRH	15	M	100/0.25	95	1.60	1.80	150
CSME0628D-220□-LRH	22	M	100/0.25	135	1.30	1.40	220
CSME0628D-330□-LRH	33	M	100/0.25	220	1.10	1.10	330
CSME0628D-470□-LRH	47	M	100/0.25	300	1.00	0.92	470
CSME0628D-680□-LRH	68	M	100/0.25	420	0.80	0.77	680
CSME0628D-101□-LRH	100	M	100/0.25	600	0.65	0.66	101

NOTE:

□ Inductance Tolerance: M: ±20% N: ±30%

1. Inductance: HIOKI3532-50

2. DC Resistance: HIOKI 3540

3. ISAT / IRMS: HP4284+42841A

4. Isat(A): DC Saturation Current that will cause initial inductance to drop approximately 30% max.

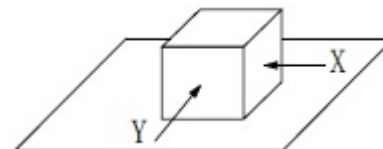
5. Irms(A): DC Current that will cause an approximate ΔT of 40 °C.

6. MSL: LEVEL 1.

7. RELIABILITY PERFORMANCE

7-1. External appearance: No external defects can be found in the visual inspection.

7-2. Electrode strength: No electrode detachment should be found when the device is pushed in two directions of X and Y with the force of 10.0N for 60 ± 2 seconds after soldering between copper plate and the electrodes. (Refer to figure at right)

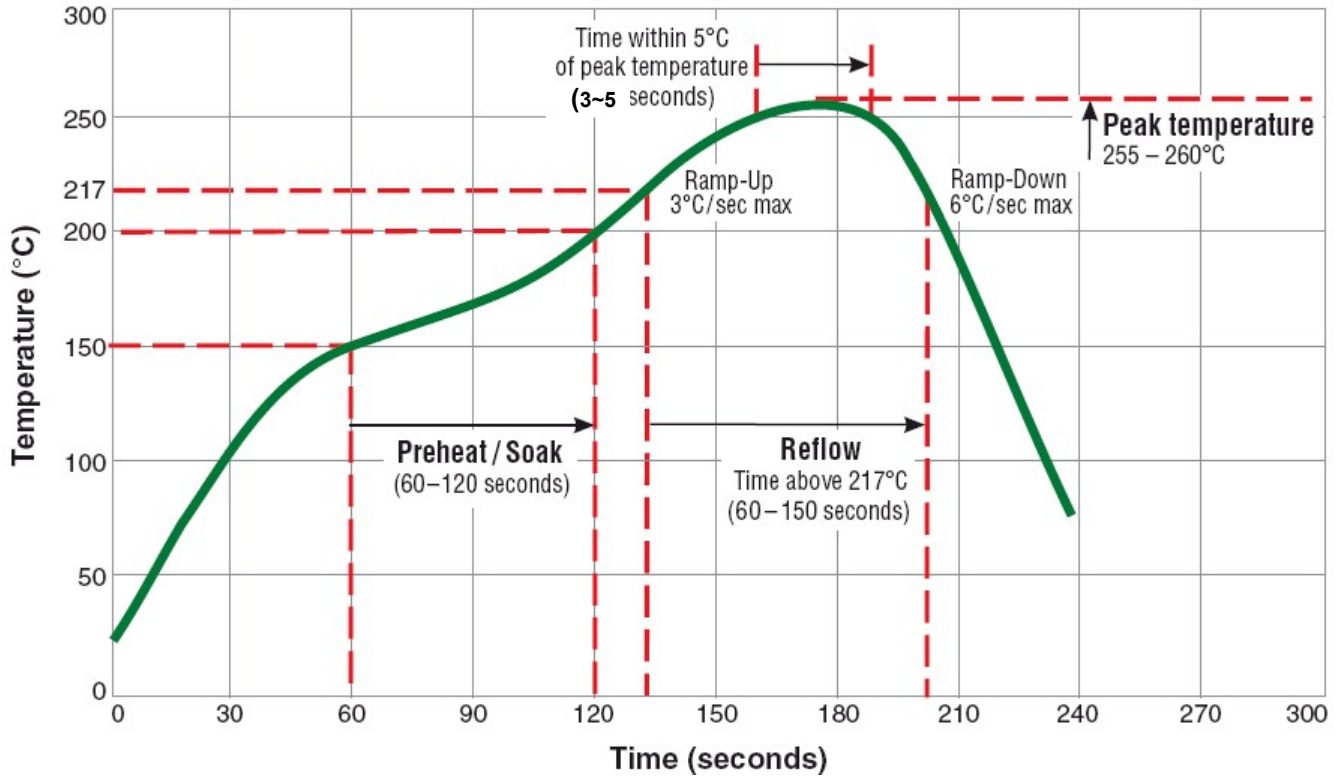


7-3. Vibration test: Inductance deviation is within $\pm 10.0\%$ after 1 hour sweeping vibration in each three directions, namely, forward and backward, up and down, right and left. The frequency is $10 \sim 55 \sim 10$ Hz and the amplitude of 1 minute cycle is 1.5mm PP.

7-4. Humidity test: Inductance deviation is within $\pm 5.0\%$ after 96 ± 4 hours test under the condition of relative humidity of $90 \sim 95\%$ and temperature of $60 \pm 2^\circ\text{C}$, and 1 hour storage under room ambient conditions after the device is wiped with dry cloth.

8. REFLOW CHART

Typical RoHS Reflow Profile

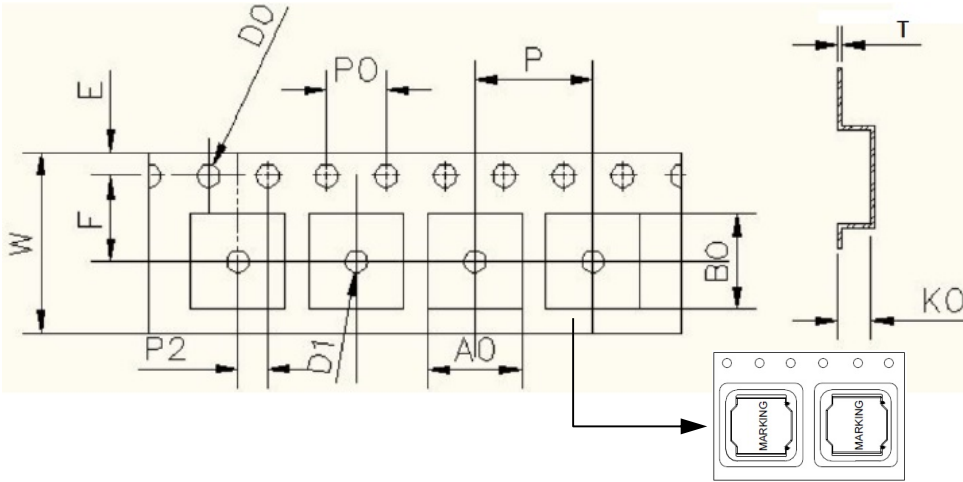


9. PACKING

9-1 OUTER PACKING

2KPCS/REEL 6KPCS/INNER BOX 18KPCS/OUTER BOX

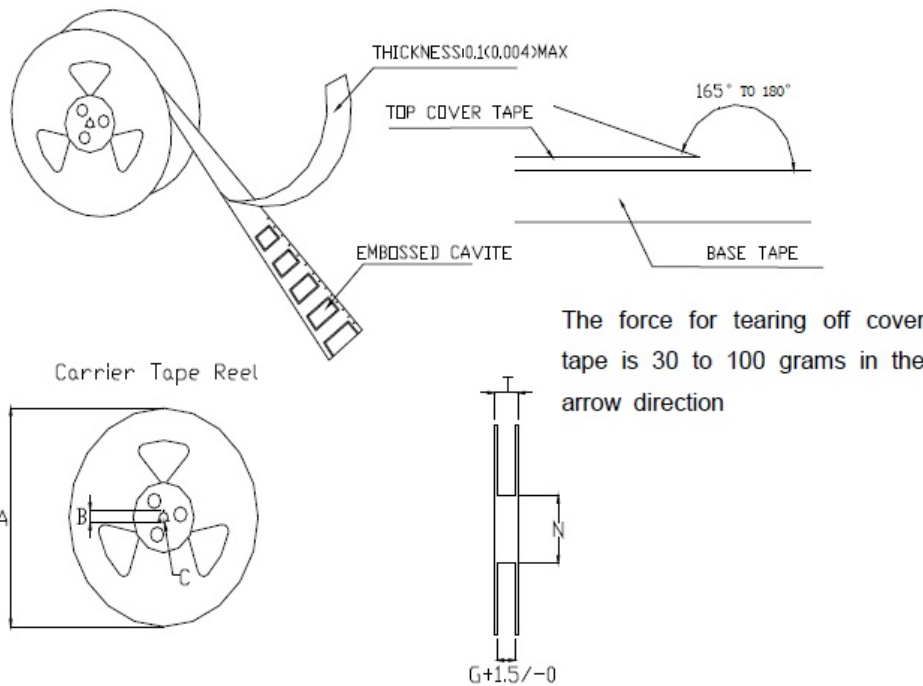
9-2 CARRIER TAPE DIMENSIONS



UNIT : mm

	W	A0	B0	K0	P	F	E	D0	D1	P0	P2	T
DIM.	12.00	6.4	6.3	3.15	8.00	5.50	1.75	1.50	1.50	4.00	2.00	0.35
TOL.	±0.3	±0.1	±0.1	±0.1	±0.1	±0.15	±0.1	±0.1	±0.1	±0.1	±0.1	±0.05

9-3 CARRIER REEL DIMENSIONS



UNIT:mm

Type	A	B	C	G	N	T
12mm	330	21±0.8	13±0.4	12.4	100	16.4