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15 M
POWER CHOKE(RoHS+H.F.)
S202112-0055
CSME0412D-150M-LRH
A
2022/01/05

Once you approve this part, please sign and return this page to the following marked location.

Customer Signature:	Date:
☐This part currently development section.	☐Production line can produce this series of products.
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ISSUE BY	CHECKED BY APPROVED BY				
July Shen	Gillian Nan	Albert Tsao			

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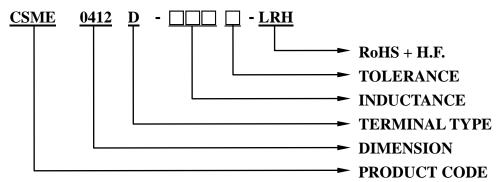
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CUSTOMER	CUSTOMER P/N	REV.	SPL. LOT NO.			
ROPLA			S202112-0055			
PART NAME	PART NO.	REV.	DATE OF ISSUE	Q'TY		
POWER CHOKE (RoHS+H.F.)	CSME0412D-150M-LRH	A	2022/01/05	0 PCS		

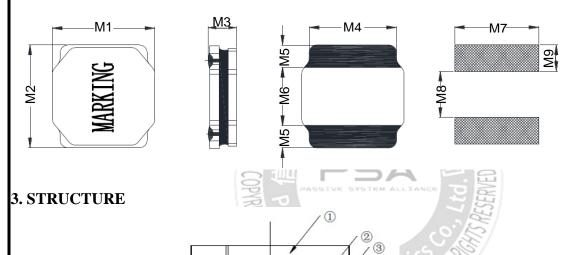
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	TELECTRICS CON			

%This is a RoHS and REACH compliant product whose related documents are available on request. %Graphic is only for dimensionally application.

1. PART NUMBER IDENTIFICATION



2. MECHANICAL DIMENSION



UNIT: mm

	DIM.	TOL.
M1	4.0	±0.2
M2	4.0	±0.2
М3	1.2	MAX.
M4	3.3	±0.2
M5	0.95	±0.2
М6	2.1	Ref.
М7	3.7	Ref.
M8	1.9	Ref.
М9	1.1	Ref.

4. MATERIAL LIST

NO	PARTS	MATERIAL	Ceaiya P/N
1	Drum Core	Ni-Zn Ferrite Core.	TZD · DYG
2	Wire	Polyurethane enameled copper wire.	YLSL
3	Adhesive	Epoxy Resin Magnetic Powder	
4	Plating Electrodes	Plating: Ag 10-20 μm Ni 1-3 μm Sn 3-7 μm	
5	Outer Electrodes	Top surface solder coating Sn99% \ Ag0.3% \ Cu0.7%	YX

5. ELECTRICAL SPECIFICATION

Part number	Marking Inductance (μH)			DC Resistance (Ω)		Isat (A)		Irms (A)	
		(μΠ)	(µ11) Tolerance		Тур.	Max.	Тур.	Max.	Typ.
CSME0412D-150M-LRH	150	15	±20%	0.400	0.310	0.68	0.80	0.65	0.80

Note:

1. Inductance: @100KHz,1.0V

2. Test Machine: <u>HIOKI3532-50 OR EQUIVALENT</u>
3. DC Resistance: <u>HIOKI 3540 OR EQUIVALENT</u>
4. ISAT / IRISE: <u>HP4284+42841A OR EQUIVALENT</u>

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

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

7. MSL: LEVEL 1.

6. RELIABILITY PERFORMANCE

6-1. Storage Temperature range : -40° C $\sim +105^{\circ}$ C

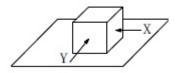
6-2. Operating temperature range : -40°C $\sim +125$ °C (Including coil's self temperature rise)

6-3. External appearance: No external defects can be found in the visual inspection.

6-4. Electrode strength: No electrode detachment should be found when the device is pushed in two directions of

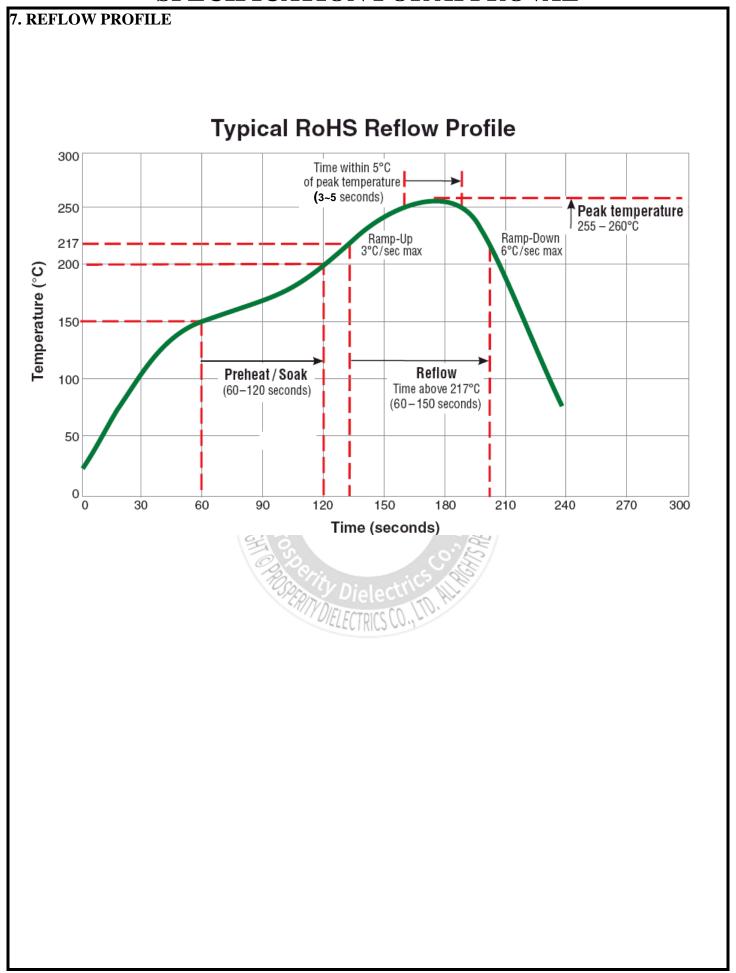
X and Y with the force of 10.0N for 10 ± 2 seconds after soldering between copper plate

and the electrodes. (Refer to figure at right)



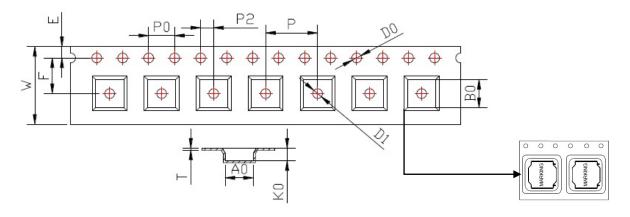
6-5. Vibration test: Inductance deviation is within $\pm 10.0\%$ after 1 hour sweeping vibration in each three directions, namely, forward and backward, up and down, right and left. The frequency is 10 \sim 55 \sim 10Hz and the amplitude of 1 minute cycle is 1.5mm PP.

6-6.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 $\pm 2^{\circ}$ C, and 1 hour storage under room ambient conditions after the device is wiped with dry cloth.



8. PACKING

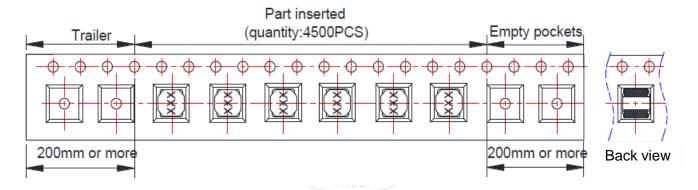
8-1 CARRIER TAPE DIMENSIONS



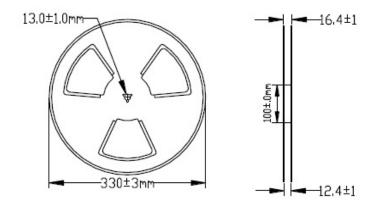
UNIT: mm

ITEM	W	A0	В0	K 0	P	F	E	D0	D 1	P0	P2	T
DIM	12.0	4.3	4.3	1.6	8.00	5.50	1.75	1.50	1.50	4.00	2.00	0.30
TOLE	+0.30 -0.10	±0.1	±0.1	±0.1	±0.1	±0.1	±0.1	+0.1	+0.1	±0.1	±0.1	±0.05

8-2 TAPING DIMENSIONS



8-3 REEL DIMENSIONS



8-4 PACKAGE SPECIFICATION

4.5KPCS/Reel
13.5KPCS/Inner Box

40.5KPCS/Outer Box