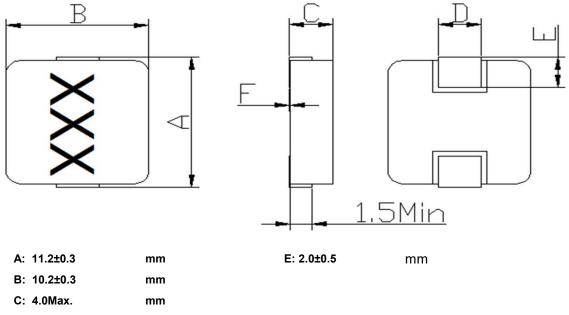
(1) SHAPES AND DIMENSIONS



D: 3.0 ref 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 $^\circ\!\!\!C\!\sim\!+$ 125 $^\circ\!\!\!C$

(Including self temp. rise)

(3)-2 Storage temperature range $-40^{\circ}C \sim +125^{\circ}C$

MATERIALS

NO.	ITEM	DESCRIPTION & TYPE	UL NO.	MANUFACTURER
1	CORE	FERRITE		JIANGXI YUEAN
2	WIRE	POLYURETHANE ENAMELLED	E258243	ELEKTRISOLA CO., LTD.
		COPPER WIRE	E84081	PACIFIC ELECTRICAL WIRE & CABLE CO., LTD.
3	SOLDER	Sn99.3%/Cu0.7%		SOLENT METAL INDUSTRY CO., LTD.
				DONGGUAN ZHONGSHUN



TABLE 1

MAGLAYERS	Inductance	Percent	L Test	Resistance	Rated D	C Current
PT/NO.	L(µH)	Tolerance	Frequency	RDC(Ω)MAX	ldc(A)	lsat(A)
MMD-10DZ-R68	0.68	M,N	100KHz/0.25V	2.7m	21.000	30.000
MMD-10DZ-1R200-00	1.20	M,N	100KHz/0.25V	5.00	15.000	23.000
MMD-10DZ-2R200-00	2.20	M,N	100KHz/0.25V	8.0m	12.000	18.000
MMD-10DZ-2R700-00	2.70	M,N	100KHz/0.24V	10.00	9.000	16.000
MMD-10DZ-5R600-00	5.60	M,N	100KHz/0.25V	22.00	7.000	12.000
MMD-10DZ-8R200-00	8.20	M,N	100KHz/0.26V	30.00	5.500	8.000
MMD-10DZ-220	22.00	M,N	100KHz/0.25V	80.00	4.000	6.000
MMD-10DZ-470	47.00	M,N	100KHz/0.25V	155.00	1.500	2.500

Idc: Based on temperature rise (△T: 40°C Typ.)



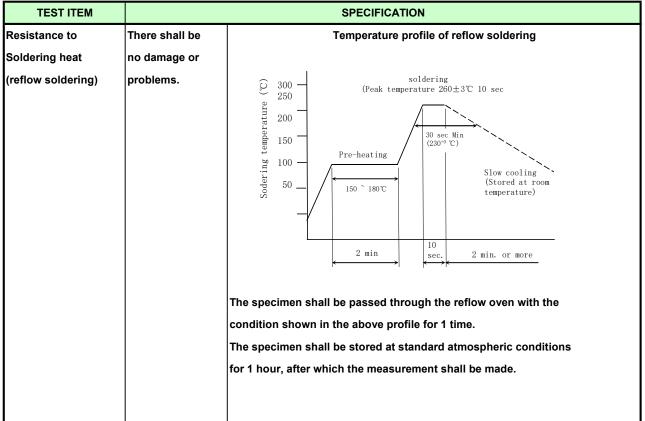
(4) RELIABILITY TEST METHOD

MECHANICAL

TEST ITEM	SPECIFICATION	TEST DETAILS				
Substrate bending	∆L/Lo≦±5%	The sample shall be soldered onto the printed circuit board				
		in figure 1 and a load applied unitil the figure in the arrow				
	There shall be	direction is made approximately 3mm.(keep time 30 seconds)				
	no mechanical	PCB dimension shall the page 7/9				
	damage or elec-	F(Pressurization)				
	trical damege.	$\overline{\Box}$				
		R5 45±2 45±2				
		PRESSURE ROD figure-1				
Vibration	∆L/Lo≦±5%	The sample shall be soldered onto the printed circuit board				
		and when a vibration having an amplitude of 1.52mm				
	There shall be	and a frequency of from 10 to 55Hz/1 minute repeated should				
	no mechanical	be applied to the 3 directions (X,Y,Z) for 2 hours each.				
	damage.	(A total of 6 hours)				
Solderability	New solder	Flux (rosin, isopropyl alcohol{JIS-K-1522}) shall be coated				
-	More than 90%	over the whole of the sample before hard, the sample shall				
		then be preheated for about 2 minutes in a temperature of				
		130 \sim 150 $^{ m C}$ and after it has been immersed to a depth 0.5mm				
		below for 3±0.2 seconds fully in molten solder M705 with				
		a temperature of 245±5℃.				
		More than 90% of the electrode sections shall be couered				
		with new solder smoothly when the sample is taken out of				
		the solder bath.				



MECHANICAL



ELECTRICAL

TEST ITEM SPECIFICATION		TEST DETAILS				
Insulation	There shall be	DC 100V voltage shall be applied across this sample of top				
resistance	no other	surface and the terminal.				
	damage or	The insulation resistance shall be more than $1 \times 10^8 \Omega$.				
	problems.					
Dielectric	There shall be	AC 100V voltage shall be applied for 1 minute acrosset the top				
withstand	no other	surface and the terminal of this sample				
voltage	damage or					
	problems.					
Temperature	∆L/L20℃≦±10%	The test shall be performed after the sample has stabilized in				
characteristics	0~2000 ppm/℃	an ambient temperature of -20 to +85℃,and the value				
		calculated based on the value applicable in a normal				
		temperature and narmal humidity shall be $△L/L20\degreeC$ ≦±10%.				



ENVIROMENT CHARACTERISTICS

TEST ITEM				SPECIFICATI	ON			
High temperature	∆L/Lo≦±5%	The sample shall be left for 96±4 hours in an atmospere with						
storage		a temperature of 125°C and a normal humidity.						
	There shall be	Upon completion of the measurement shall be made after the						
	no mechanical	sample has been left in a normal temperature and normal						
	damage.	humidity for 1 hour.						
Low temperature	∆L/Lo≦±5%	The sam	The sample shall be left for 96±4 hours in an atmosphere with					
storage		a tempe	a temperature of -25±3℃.					
	There shall be	Upon co	omple	tion of the test, the mea	asurement shall be m	ade		
	no mechanical	after the	after the sample has been left in a normal temperature and					
	damage.	normal	humic	lity for 1 hour.				
Change of	∆L/Lo≦±5%	The sam	The sample shall be subject to 5 continuos cycles, such as shown					
temperature		in the ta	ble 2	below and then it shall	be subjected to stand	dard		
	There shall be	atmospl	neric (conditions for 1 hour, a	after which measurem	ent		
	no other dama-	shall be	shall be made.					
	ge of problems							
				table 2	2	_		
				Temperature	Duration			
			1	−25±3℃	30 min.			
			-	(Themostat No.1)				
			2	Standard	No.1→No.2			
			_	atmospheric				
		3	85±2℃	30 min.				
				(Themostat No.2)				
			4	Standard	No.2→No.1			
				atmospheric				
Moisture storage		The sample shall be left for 96±4 hours in a temperature of						
_		40±2℃ and a humidity(RH) of 90~95%.						
	Upon completion of the test, the measurement shall be made							
	no mechanical	after the sample has been left in a normal temperature and						
	damage.	normal humidity more than 1 hour.						
Test conditions:								
The sample shall be reflow soldered onto the printed circuit board in every test.								

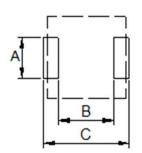


(5) LAND DIMENSION (Ref.)

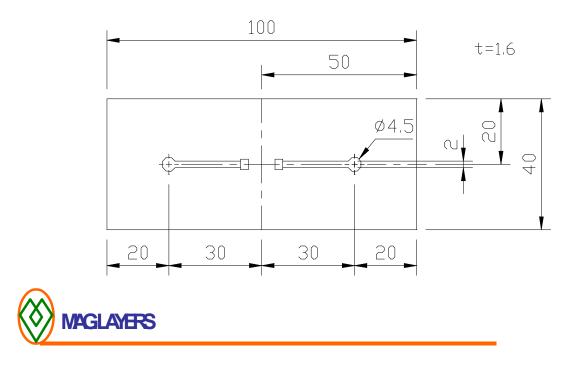
PCB: GLASS EPOXY t=1.6mm

(5)-1 LAND PATTERN DIMENSIONS

(STANDARD PATTERN) unit: mm

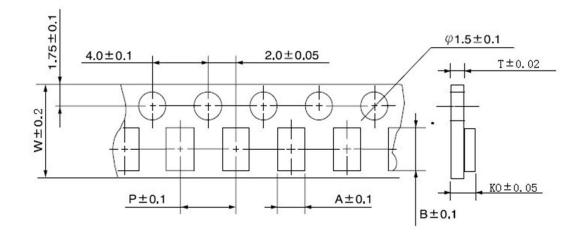


(5)-2 SUBSTRATE BENDING TEST BENDING TEST BOARD

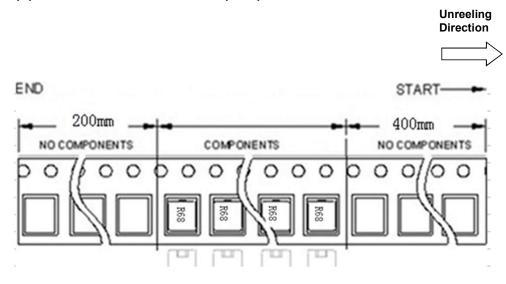


(6) PACKAGING

(6)-1 CARRIER TAPE DIMENSIONS (mm)

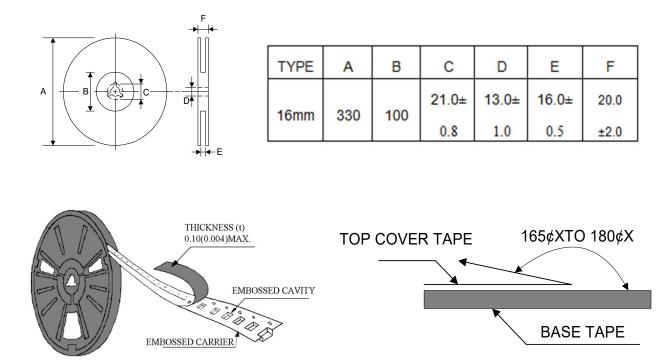


(6)-2 TAPING DIMENSIONS (mm)





(6)-3 REEL DIMENSIONS (mm)



(6)-4 QUANTITY

800 pcs/Reel

The products are packaged so that no damage will be sustained.

