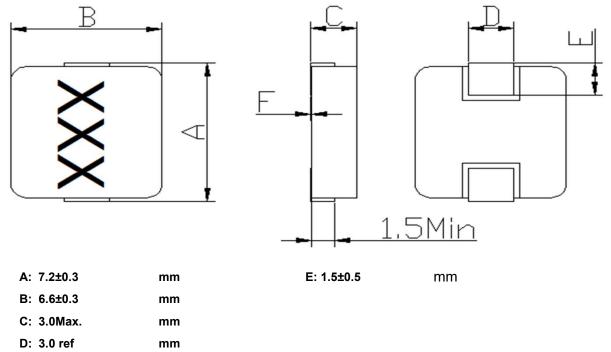
(1) SHAPES AND DIMENSIONS



(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

(Including self temp. rise)

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			
R	MAG.LAYERS						

TABLE 1

MAGLAYERS	Inductance	Percent	L Test	Resistance	Rated D	C Current
PT/NO.	L(µH)	Tolerance	Frequency	RDC(Ω)MAX	ldc(A)	Isat(A)
MMD-06CZ-R33	0.33	M,N	100KHz/0.25V	3.9m	20.000	30.000
MMD-06CZ-R36	0.36	M,N	100KHz/0.25V	3.9m	18.000	28.000
MMD-06CZ-1R000-00	1.00	M,N	100KHz/0.25V	10m	12.000	15.000
MMD-06CZ-1R200-00	1.2	M,N	100KHz/0.24V	11m	11.000	14.500
MMD-06CZ-1R500-00	1.5	M,N	100KHz/0.25V	13m	10.000	14.000
MMD-06CZ-2R200-00	2.2	M,N	100KHz/0.25V	18m	8.000	12.000
MMD-06CZ-2R7	2.7	M,N	100KHz/0.24V	22m	7.000	10.000
MMD-06CZ-3R300-00	3.3	M,N	100KHz/0.25V	26m	6.000	9.000
MMD-06CZ-4R700-00	4.7	M,N	100KHz/0.25V	35m	4.500	8.000
MMD-06CZ-100	10.0	M,N	100KHz/0.25V	78m	3.500	5.000
MMD-06CZ-150	15.0	M,N	100KHz/0.25V	135m	3.000	4.000
MMD-06CZ-220	22.0	M,N	100KHz/0.25V	180m	2.000	3.000

specify the inductance tolerance , M(±20%) , N(±30%)

% Isat: Based on inductance change ($\Delta L/Lo:~drop$ 30% Max.) @ ambient temp. 25 ${}^\circ\!\!{\rm C}$

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



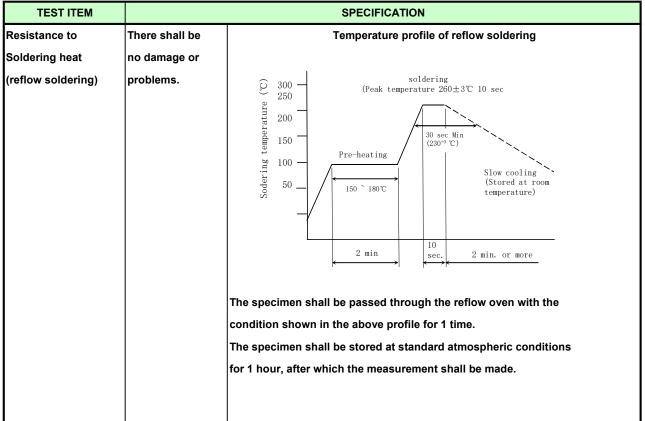
(4) RELIABILITY TEST METHOD

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.	$\overline{\mathbf{Q}}$					
		$R5 45\pm 2 45\pm 2$					
		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 $^{\circ}\!\mathrm{C}$ 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 $^\circ \!$					
	There shall be	Upon completion of the measurement shall be made after the					
	no mechanical	sample	sample has been left in a normal temperature and normal				
	damage.	humidity for 1 hour.					
Low temperature	∆L/Lo≦±5%	The sam	nple s	hall be left for 96±4 hou	urs in an atmosphere	with	
storage		a tempe	rature	e of -25±3℃.			
	There shall be	Upon co	omple	tion of the test, the mea	asurement shall be m	ade	
	no mechanical	after the	sam	ple has been left in a no	ormal temperature and	d	
	damage.	normal	humic	lity for 1 hour.			
Change of	∆L/Lo≦±5%	The sam	nple s	hall be subject to 5 cor	ntinuos cycles, such a	s 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				_	
				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					
_		$40\pm2^{\circ}$ and a humidity(RH) of 90 \sim 95%.					
	There shall be	Upon completion of the test, the measurement shall be made					
	no mechanical	after the	ifter the sample has been left in a normal temperature and				
	damage.	normal humidity more than 1 hour.					
Fest conditions:							
The s	ample shall be reflow	v soldered	d onto	the printed circuit boa	rd in every test.		



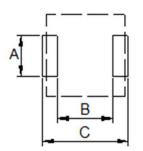
(5) LAND DIMENSION (Ref.)

PCB: GLASS EPOXY t=1.6mm

(5)-1 LAND PATTERN DIMENSIONS

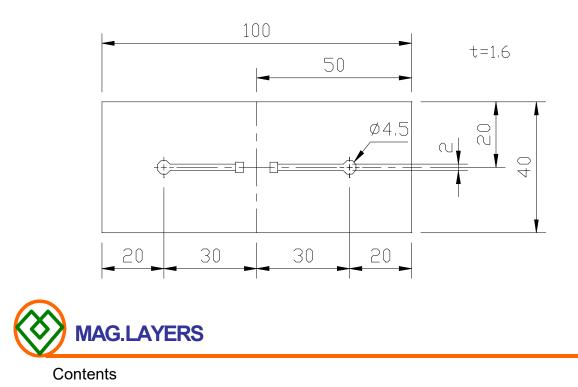
(STANDARD PATTERN)

unit: mm



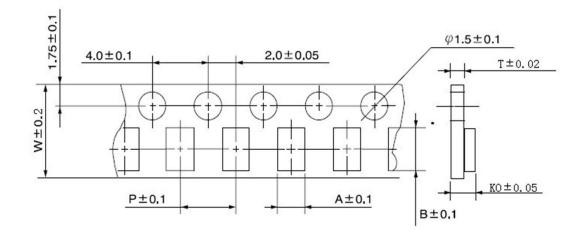
А	В	С		
3.43	3.71	7.67		

(5)-2 SUBSTRATE BENDING TEST BENDING TEST BOARD

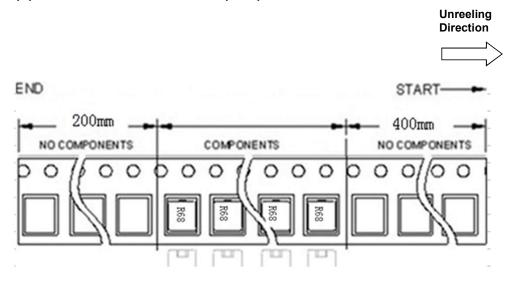


(6) PACKAGING

(6)-1 CARRIER TAPE DIMENSIONS (mm)

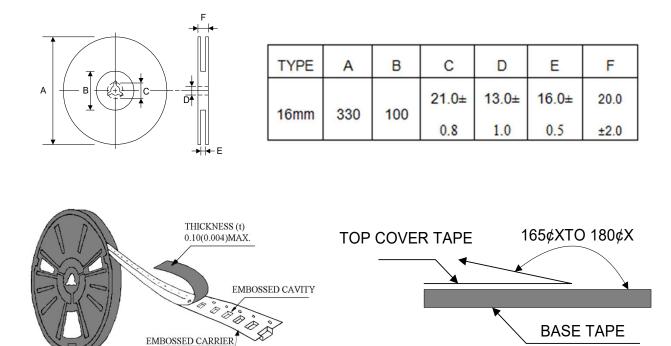


(6)-2 TAPING DIMENSIONS (mm)





(6)-3 REEL DIMENSIONS (mm)



(6)-4 QUANTITY

1000 pcs/Reel

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

