

SPECIFICATION FOR APPROVAL

CUSTOMER.:

PART NO.:

DESCRIPTION: LTA-5824-2G4H2-A1

SAMPLE NO:

DATE:

	FULLY APPROVED	PARTIALLY APPROVED	REJECTED
SIGN			
SUGGESTION			



MAG. LAYERS SCIENTIFIC-TECHNICS CO., LTD
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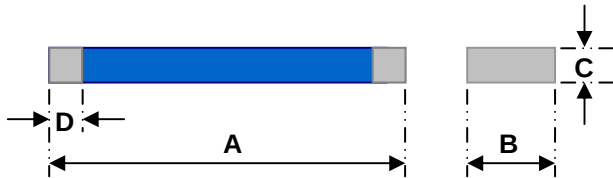
E-mail:info@mail.maglayers.com.tw



MAG.LAYERS Scientific-Technics Co., Ltd.

SPECIFICATION FOR APPROVAL

◆ PRODUCT DIMENSION



Dimensions			
A	B	C	D
5.8 ± 0.2	2.4 ± 0.2	0.9 ± 0.2	0.4 ± 0.2

NOTE : Dimensions in mm

◆ PRODUCT IDENTIFICATION

L T A - 8 5 2 4 - # # # x x - G 0 1
① ② ③ ④

- ① Product Code
- ② Dimension Code
- ③ Series Type (# # # represents center frequency and x x represents material type)
- ④ Design Code

◆ TERMINAL CONFIGURATION



- ① Feed Termination
- ② Solder Termination



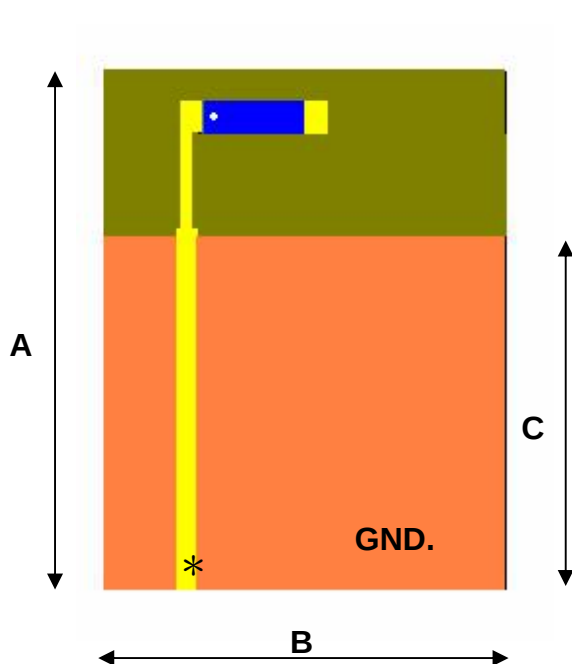
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CUSTOMER:		CUSTOMER'S PART NO. / DWG NO.																																																	
ITEM/PART NO. : LTA-5824-2G4H2-A1																																																			
DIMENSION: (m/m)		<table border="1" style="width: 100%; border-collapse: collapse;"> <tr><td style="width: 10%;">A</td><td style="width: 40%;">5.8±0.2</td><td style="width: 50%;">m/m</td></tr> <tr><td>B</td><td>2.4±0.2</td><td>m/m</td></tr> <tr><td>C</td><td>0.9±0.2</td><td>m/m</td></tr> <tr><td>D</td><td>0.4±0.20</td><td>m/m</td></tr> <tr><td>E</td><td></td><td>m/m</td></tr> <tr><td>F</td><td></td><td>m/m</td></tr> <tr><td>G</td><td></td><td>m/m</td></tr> <tr><td>H</td><td></td><td>m/m</td></tr> <tr><td>I</td><td></td><td>m/m</td></tr> <tr><td>J</td><td></td><td>m/m</td></tr> <tr><td>K</td><td></td><td>m/m</td></tr> <tr><td>L</td><td></td><td>m/m</td></tr> <tr><td>M</td><td></td><td>m/m</td></tr> <tr><td>N</td><td></td><td>m/m</td></tr> <tr><td>O</td><td></td><td>m/m</td></tr> <tr><td>P</td><td></td><td>m/m</td></tr> </table>		A	5.8±0.2	m/m	B	2.4±0.2	m/m	C	0.9±0.2	m/m	D	0.4±0.20	m/m	E		m/m	F		m/m	G		m/m	H		m/m	I		m/m	J		m/m	K		m/m	L		m/m	M		m/m	N		m/m	O		m/m	P		m/m
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O		m/m																																																	
P		m/m																																																	
ELECTRICAL REQUIREMENTS		TEST INSTRUMENTS																																																	
Center Frequency	2450 MHz	HP 8753E NETWORK ANALYZER																																																	
Bandwidth	~300 MHz																																																		
Gain	1~2 dBi																																																		
VSWR	2.0 max.																																																		
Polarization	Linear																																																		
DRAWN BY	CHECKED BY	APPROVED BY	SAMPLE NO.																																																



ELECTRICAL CHAPACTERISTIC

◆ TESTING BOARD

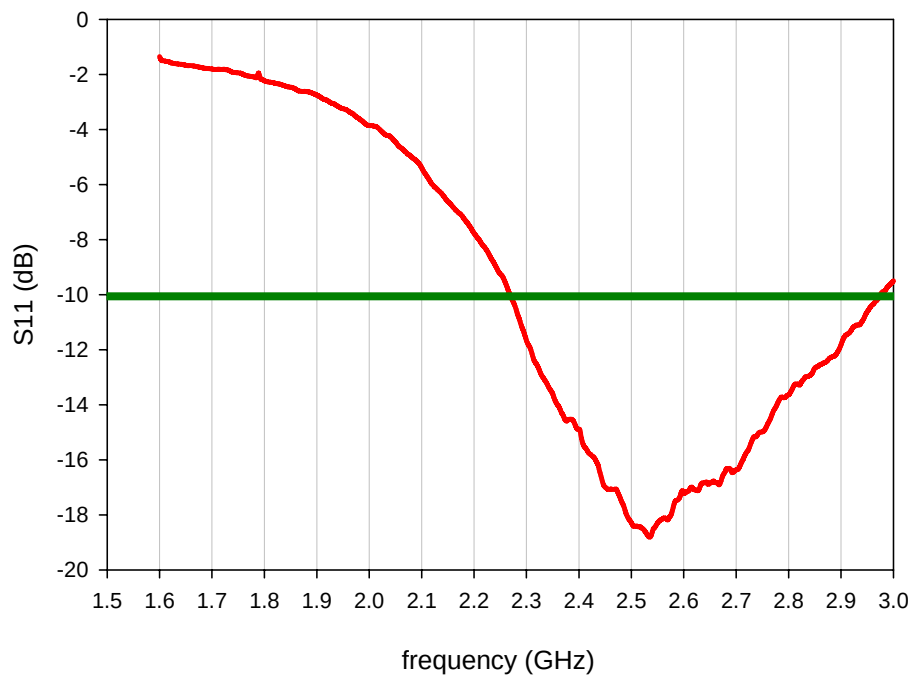


Dimensions		
A	B	C
40	30	28
* : 50 Ohm Transmission Line		

NOTE : Dimensions in mm

◆ RETURN LOSS

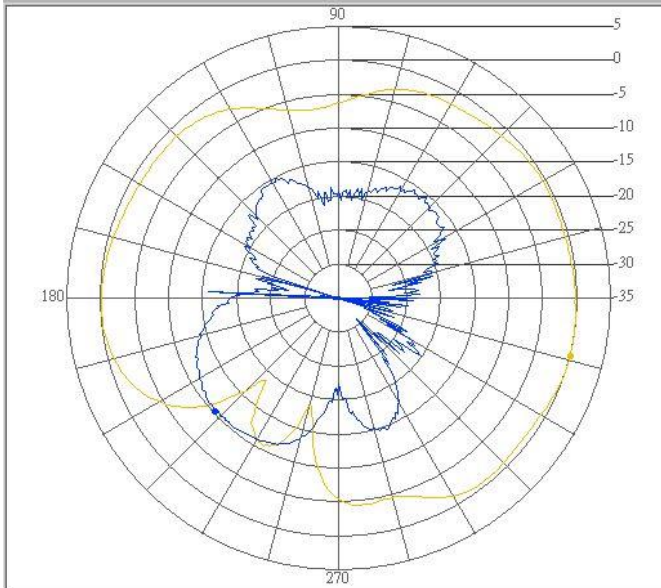
Return Loss



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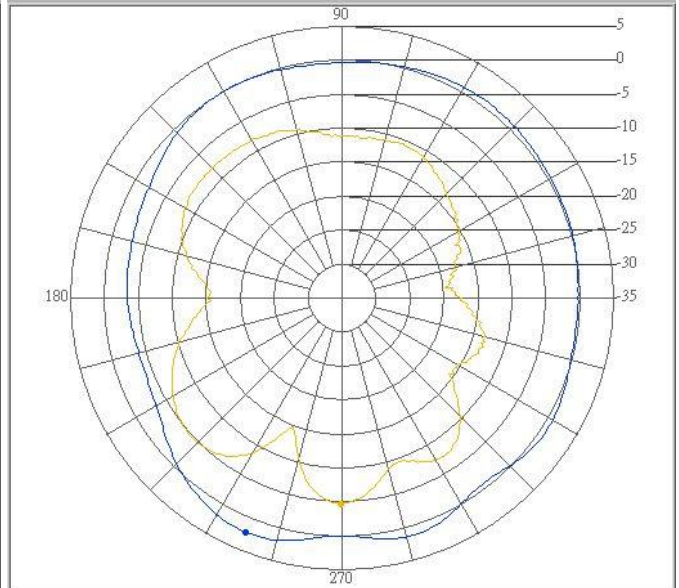
◆ RADIATION PATTERN

XY Plane Pattern



	Model No.	Ant. Polarization	Freq(MHz)	Peak angle	Value	Average
■	美磊 Maglayer_XYplane--H	Horizontal	2480	346.0	0.1	-2.2
■	美磊 Maglayer_XYplane--V	Vertical	2480	222.4	-10.4	-16.2

XZ Plane Pattern

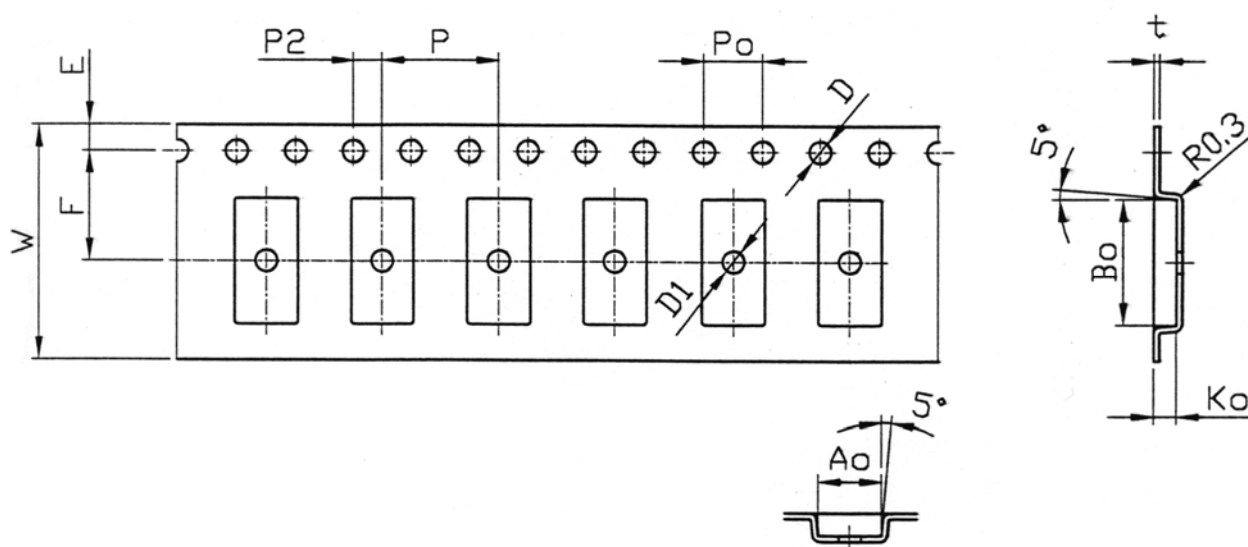
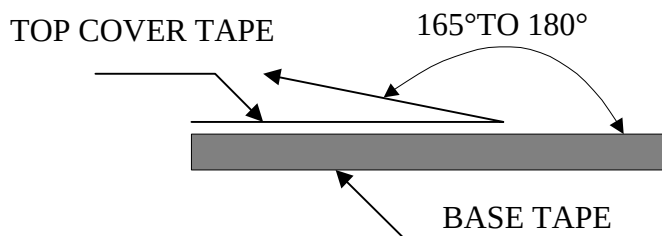
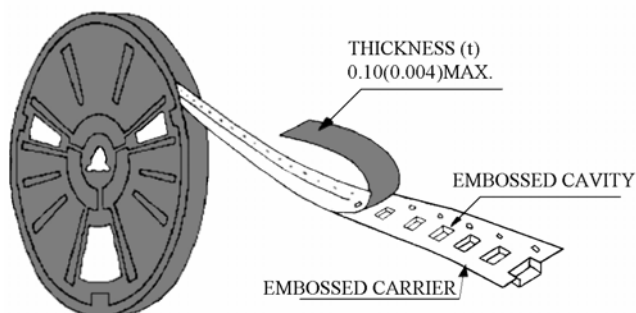


	Model No.	Ant. Polarization	Freq(MHz)	Peak angle	Value	Average
■	美磊 Maglayer_XZplane--H	Horizontal	2480	269.5	-4.7	-9.5
■	美磊 Maglayer_XZplane--V	Vertical	2480	247.7	2.3	-0.1



PACKAGING FOR SMC

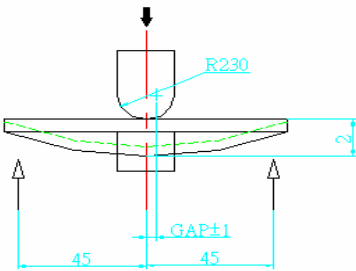
The force for tearing off cover tape is 10 grams in the arrow direction.



Dimensions				
W	16.00	±0.30	Ao	2.80 +0.10/-0.00
P	8.00	±0.10	Bo	6.00 +0.10/-0.00
E	1.75	±0.10	Ko	1.35 ±0.10
F	7.50	±0.10	t	0.35 ±0.05
P2	2.00	±0.10		
D	1.50	+0.10/-0.00		
D1	1.50	+0.25/-0.00		
Po	4.00	±0.20		



MULTILAYER CHIP BEADS RELIABILITY TEST

Heat proof	+85℃ for 24hour	1. No apparent damage 2. Fulfill the electrical spec. after test
Cold proof	-40℃ for 24hour	1. No apparent damage 2. Fulfill the electrical spec. after test
Heat shock	-40~+85℃ for 5cycles each cycle being 30min	1. No apparent damage 2. Fulfill the electrical spec. after test
Moisture proof	+40℃±2, 90~95% R.H. for 96hours	No apparent damage Fulfill the electrical spec. after test
Vibration	10~55Hz vibration frequency with 1.5mm amplitude for two hours in x, y, z directions (10MHz/min)	No apparent damage
Drop shock	Dropped onto hard wood from 50cm height three times in x, y, z directions. The terminals shall be protected.	No apparent damage
Solder heat shock	It shall be possible to hot air re-flow the module twice with a temperature profile shown below.	No apparent damage
Bending test	Solder specimen LTCC components on the test printed circuit board (L:100 x W:40 x T:1.6mm) in appended recommended PCB pattern. Apply the load in direction of the arrow until bending reaches 2mm.  Unit : mm	No apparent damage
Solderability	The dipped surface of the terminal shall be at least 75% covered with solder after dipped in solder bath of 230℃±5 for 5sec. ±1. Remark solder: H63A (Eutectic Solder) Remark flux: Resin	
Storage temp & humidity range	Storage temp: < 40℃ Humidity range: < 70%RH	

