

SPECIFICATIONS

DESCRIPTION	ESL 32INCH BLE ANTENNA
MAKER	GALTRONICS KOREA
MAKER PART NAME	02036073-08278
MAKER SPECIFICATION	BLE 2.4GHz
SOLUM CODE No.	ML42A010036A
APPLIED TO	ESL 32INCH
REMARKS	

Gross Weight(kg)	Net Weight(kg)	Unit Weight(g)
		1.33

This is to certify that all of parts shipped definitely can meet the requirements of RoHS and Halogen Free(HF)
本承认愿将证明给贵司供应的所有部品完全符合RoHS以及HF的要求条件
본 승인원은 귀사에 납품하는 모든 부품에 대해 RoHS 및 Halogen Free (HF) 요구조건을 만족하는 것을 증명합니다.

MADAMS I.D	환경유해물질 등록 사이트 ID (없을 시, 미 기재)	DATE	2025. 10. 15
DESIGN	CHECK	APPROVAL	
	NA		
2025. 10. 15		2025. 10. 15	
A TERM OF VALIDITY	Over at least 15 YEARS		

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Supplier HQ	GALTRONICS KOREA	TEL	031-8004-3030
		FAX	031-8004-3031
ADDRESS	1-B214, Innoplex Bldg., 306, Sinwon-ro, Yeongtong-gu, Suwon-si, Gyeonggi-do		
Supplier Factory 1	GALTRONICS KOREA Bupyeong Factory	TEL	032-227-0771
		FAX	032-227-0773
ADDRESS	42, Bupyeong-daero 329 beon-gil, Bupyeong-gu, Incheon, Republic of Korea		
Supplier Factory 2	GALTRONICS KOREA Vietnam Factory	TEL	+84-0241-3952966 / 3952968
		FAX	
ADDRESS	Lot G-01, Que Vo industrial zone (extension area), Phuong Lieu ward, Bac Ninh Province, VietNam		
URL	www.galtronics.com		

ANTENNA SPECIFICATION

Project No: 08278

Solu-M ESL 32inch BLE(2.4GHz) Antenna

PRODUCT	BLE ANTENNA
TYPE	PCB+CABLE
CUSTOMER P/N	ML42A010036A
GALTRONICS P/N	02036073-08278
PRODUCT DRAWING	REV-B
APPROVAL SPECIFICATION	REV-S2

APPROVAL SHEET

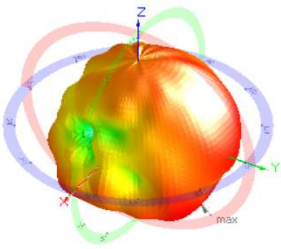
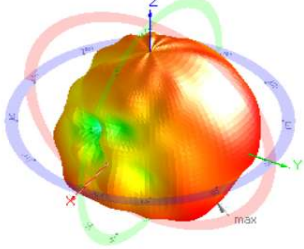
CONTACT OFFICE : GALTRONICS KOREA
#B214, Innoplex Bldg.,306,
Sinwon-ro, Yeongtong-gu, Suwon-si,
Gyeonggi-do, 16675 Korea

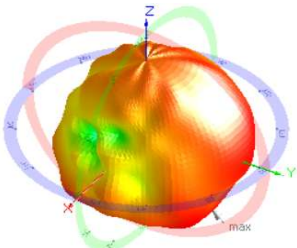
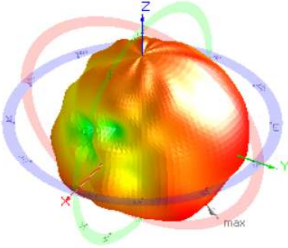
TEL : +81-31-8002-3030
FAX : +82-31-8002-3031

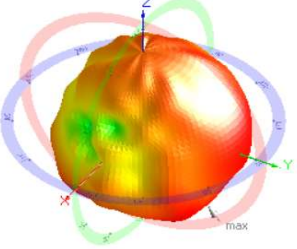
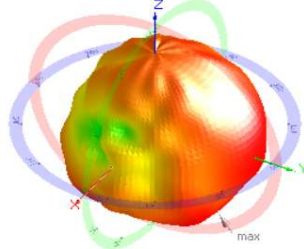
CUSTOMER ACCEPTANCE

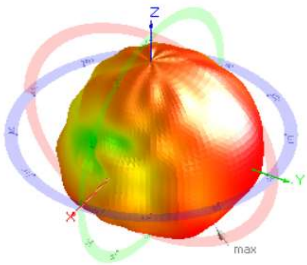
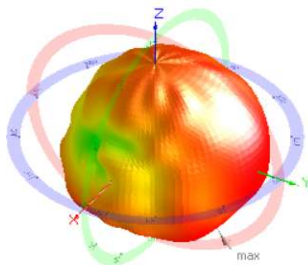
ENGINEERING MANAGER CHECKED	Q/A MANAGER CHECKED
 <u>2025-10-15</u>	 <u>2025-10-15</u>

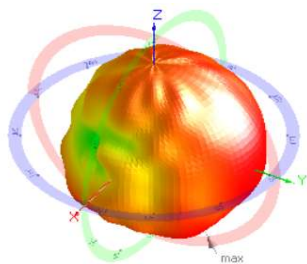
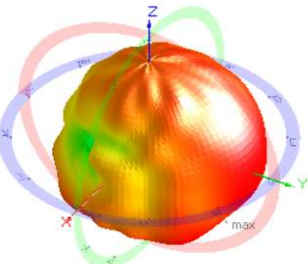
ANTENNA SPECIFICATION**PRODUCT PHOTO****TOP VIEW****BOTTOM VIEW**

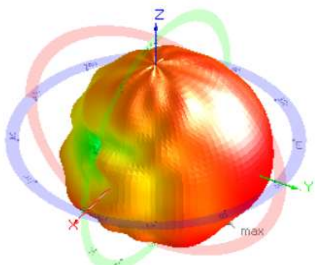
주파수 대역	BLE & 2.4G SRD	
(Frequency Band)	2400 MHz	2410 MHz
3D Radiation Pattern		
Efficiency[%]	54.49	55.18
Avg Gain [dBi]	-2.64	-2.58
Peak Gain [dBi]	4.72	4.62

주파수 대역	BLE & 2.4G SRD	
(Frequency Band)	2420 MHz	2430 MHz
3D Radiation Pattern		
Efficiency[%]	54.62	54.06
Avg Gain [dBi]	-2.63	-2.67
Peak Gain [dBi]	4.41	4.12

주파수 대역	BLE & 2.4G SRD	
(Frequency Band)	2440 MHz	2450 MHz
3D Radiation Pattern		
Efficiency[%]	55.18	57.48
Avg Gain [dBi]	-2.58	-2.4
Peak Gain [dBi]	3.9	4.04

주파수 대역	BLE & 2.4G SRD	
(Frequency Band)	2460 MHz	2470 MHz
3D Radiation Pattern		
Efficiency[%]	58.36	59.12
Avg Gain [dBi]	-2.34	-2.28
Peak Gain [dBi]	4.04	3.98

주파수 대역	BLE & 2.4G SRD	
(Frequency Band)	2480 MHz	2490 MHz
3D Radiation Pattern		
Efficiency[%]	59.54	59.8
Avg Gain [dBi]	-2.25	-2.23
Peak Gain [dBi]	4.03	4.1

주파수 대역	BLE & 2.4G SRD	
(Frequency Band)	2500 MHz	
3D Radiation Pattern		
Efficiency[%]	58.59	
Avg Gain [dBi]	-2.32	
Peak Gain [dBi]	4.1	



PRODUCT SPECIFICATION

ESL 32inch BLE(2.4GHz) ANTENNA

02036073-08278

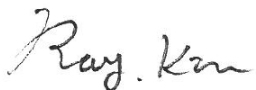
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ANTENNA SPECIFICATION**1. DESCRIPTION.**

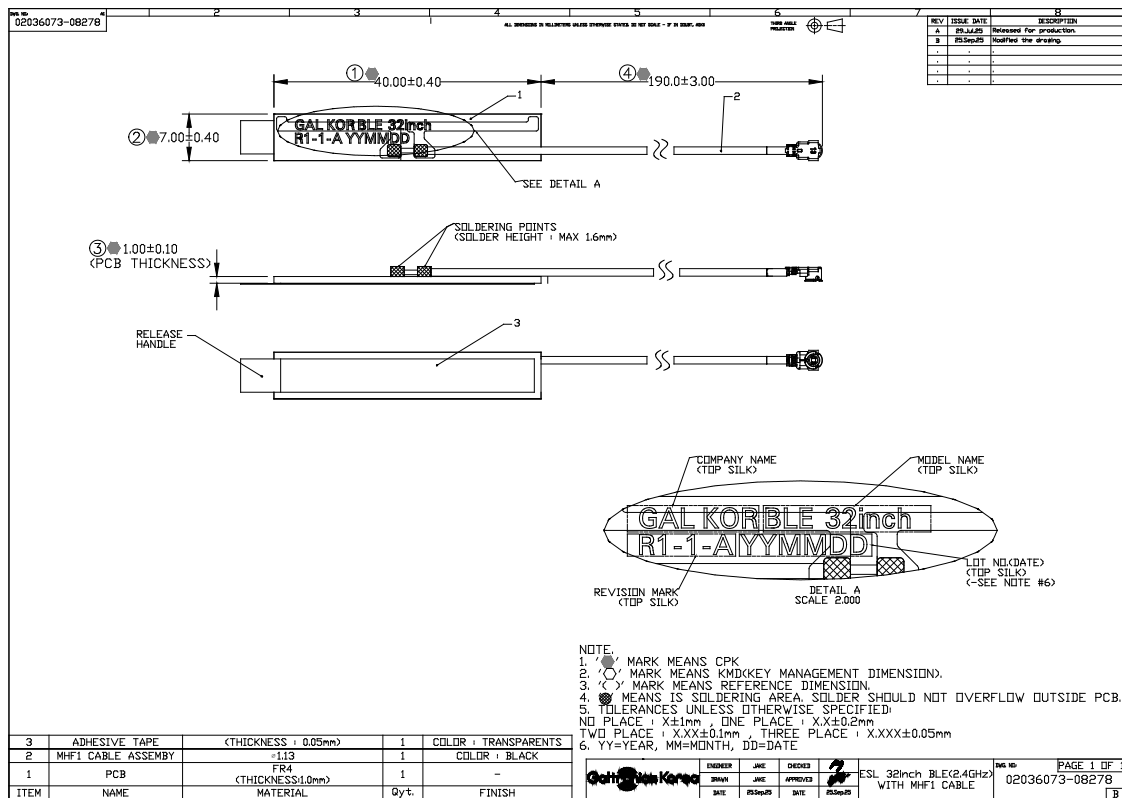
<u>REV NO.</u>	<u>DATE</u>	<u>DESCRIPTION</u>	
S1 S2	2025-08-07 2025-10-15	RELEASED FOR CUSTOMER APPROVAL. CHANGE THE CABLE SOLDERING DIRECTION.	
<u>DISTRIBUTION LIST:</u> 1. QC 2. SALES		3. Solu M	
<u>APPROVED BY</u>		<u>SIGNATURE</u>	<u>DATE</u>
Engineering Manager Louis.H			2025-10-15
RF Engineer Ray. K			2025-10-15
Mechanical Engineer Jake.L			2025-10-15

ANTENNA SPECIFICATION**2. PART LIST**

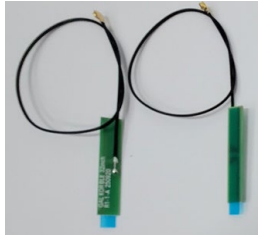
Galtronics Korea

PART – LIST

MODEL No.		ESL 32mch BLE(2.4GHz)		CUSTOMER		Solu-M		EDIT DATE		2025-09-26	
RFQ No.		8278		DATE		2025-07-29		Revision		B	
ITEM	LEVEL	PART NUMBER	VER	PART NAME		Qty	Unit	MATERIAL	FINISH	MATERIAL	
1	.0	02036073-08278	B	INTERNAL ANTENNA WITH MHF1 CABLE		1	AY	-	-	-	
2	.1	50-6215-09	B	Full Assembly		1	AY	-	Manual adhesive tape assembly	-	
3	.2	06-6677-03	A	ADHESIVE TAPE	1	EA	ADHESIVE TAPE(0.05T) P/N : YL-4972	-	YOU LIN VINA		
					1	EA	RELEASE PAPER or FILM P/N : 100-075# 419	-	POLY TECH VINA		
4	.2	60-5188-04	B	PCB CABLE Assembly		1	AY	-	Manual soldering assembly	-	
5	...3	60-5188-03	A	PCB	1	EA	1. Top Silk (Color=White) (Halogen Free) P/N : TM-900W	Electroless Ni (3.0um~8.0um) Au (Min 0.03 um) Plating	CHAOYANG		
					1	EA	2. Top Mask(PSR INK) (Color=Green) (Halogen Free) P/N : GHF42		CHAOYANG		
					1	EA	3. FR4 (1 Side) (T=1.0mm) (Halogen Free) P/N : GF532		SHANGHAI GLOBAL		
6	...3	03-5291-03	A	MHF1 Cable Assembly	1	EA	CONNECTOR : MHF1 P/N : 20278-112R-13	Au plating	I-PEX		
					1	EA	Cable length: 213.0mm Cable Diameter : Ø1.13	Color : BLACK	SHENYU		
Undecided Packing-List											

ANTENNA SPECIFICATION**3. PRODUCT DRAWING**

4. RELIABILITY TEST**4-1. Reliability Test Results**

신뢰성 시험 결과서 (열충격/ Thermal Shock)				작성	검토	승인
				내부결재 완료		
작성자 : 지예진				작성일 : 2025-10-13		
■ RFD No.	8278	■ 제품명	ESL 32inch BLE	■ 특이사항 Result: 1) There are no scratches, warping, peeling, cracking, discoloration or discoloration before and after testing 2) Checked VSWR: OK		
■ 색상	-	■ 접수일자/ Ngày bắt đầu test	2025-10-02			
■ 시료 수	5	■ 시험기간/ Ngày kết thúc test	10.2~10.13			
항목				시험 전(前)/ Trước khi test		시험 후(後)/ Sau khi test
열충격 ▶ 시험기/비품 : 열충격시험기 ▶ 시험방법 1) -25℃ ~ +60℃ 각 30분 240Cycle(240Hr) → 상온 방치 후 2) 외관검사 및 VSWR ▶ 판정기준 1) 시험 前, 後 외관 변색 및 제품 이상 없을 것.						
			판정	OK		
■ 비고 - 외관확인 결과 이상무 - VSWR 양호할 것						

신뢰성 시험 결과서 (고온보존)				작성	검토	승인
				내부결재 완료		
작성자 : 지예진				작성일 : 2025-10-13		
■ RFD No.	8278	■ 제품명	ESL 32inch BLE	■ 특이사항 Result: 1) There are no scratches, warping, peeling, cracking, discoloration, discoloration, or nail scratches before/after testing 2) Checked VSWR: OK		
■ 색상	-	■ 접수일자/ Ngày bắt đầu test	2025-10-02			
■ 시료 수	5	■ 시험기간/ Ngày kết thúc test	10.2~10.13			
항목				시험 전(前)/ Trước khi test		시험 후(後)/ Sau khi test
고온보존 ▶ 시험기/비품 : 고온챔버 ▶ 시험방법 1) 제품을 60℃ 챔버에 240hr 방치 → 상온 4hr 방치 후 2) 육안 검사 및 VSWR 측정 ▶ 판정기준 1) 시험 前, 後 외관 변색 및 제품 이상 없을 것.						
			판정	OK		
■ 비고 - 외관확인결과 이상무 - VSWR 양호할 것						

ANTENNA SPECIFICATION

신뢰성 시험 결과서 (고온고습 / HTHH)				작성	검토	승인
작성자 : 지예진				내부결재 완료		
				작성일	2025-10-13	
■ RFD No.	8278	■ 제품명	ESL 32inch BLE	■ 특이사항 Result: 1) There are no scratches, warping, peeling, cracking, discoloration, discoloration, or nail scratches before/after testing 2) Checked VSWR: OK		
■ 색 상	-	■ 접수일자/ Ng ày bắt đầu test	2025-10-02			
■ 시 료 수	5	■ 시험기간/ Ng ày kết thúc test	10.2~10.13			
항목	방법			시험 전(前)/ Trước khi test	시험 후(後)/ Sau khi test	
고온고습	▶ 시험기/비품 : 항온항습기 ▶ 시험방법 1) 제품을 40℃ / 70% 챔버에 240hr 방치 → 상온 4hr 방치 후 2) 육안 검사 및 VSWR 측정 ▶ 판정기준 1) 시험 前, 後 외관 변색 및 제품 이상 없을 것.			 		
			판정	OK		
■ 비교 - 외관 확인결과 이상무 - VSWR 양호할 것						

신뢰성 시험 결과서 (고온동작)				작성	검토	승인
작성자 : 지예진				내부결재 완료		
				작성일	2025-10-13	
■ RFD No.	8278	■ 제품명	ESL 32inch BLE	■ 특이사항 Result: 1) There are no scratches, warping, peeling, cracking, discoloration, discoloration, or nail scratches before/after testing 2) Checked VSWR: OK		
■ 색 상	-	■ 접수일자/ Ng ày bắt đầu test	2025-10-02			
■ 시 료 수	5	■ 시험기간/ Ng ày kết thúc test	10.2~10.13			
항목	방법			시험 전(前)/ Trước khi test	시험 후(後)/ Sau khi test	
고온동작	▶ 시험기/비품 : 고온챔버 ▶ 시험방법 1) 제품을 40℃ 챔버에 240hr 방치 → 상온 4hr 방치 후 2) 육안 검사 및 VSWR 측정 ▶ 판정기준 1) 시험 前, 後 외관 변색 및 제품 이상 없을 것.			 		
			판정	OK		
■ 비교 - 외관 확인결과 이상무 - VSWR 양호할 것						

ANTENNA SPECIFICATION

신뢰성 시험 결과서				작성	검토	승인
(저온동작)				내부결재 완료		
작성자 : 지예진				작성일	2025-10-13	
■ RFD No.	8278	■ 제 품 명	ESL 32inch BLE	■ 특이사항 Result: 1) There are no scratches, warping, peeling, cracking, discoloration, discoloration, or nail scratches before/after testing 2) Checked VSWR: OK		
■ 색 상	-	■ 접수일자/ Ng ày bắt đầu test	2025-10-02			
■ 시 료 수	5	■ 시험기간/ Ng ày kết thúc test	10.2~10.13			
항목	방법			시험 전(前)/ Trước khi test		시험 후(後)/ Sau khi test
저온동작	▶ 시험기/비품 : 저온챔버 ▶ 시험방법 1) 제품을 0℃ / -25℃ 챔버에 240hr 방치 → 상온 4hr 방치 후 2) 육안 검사 및 VSWR 측정 ▶ 판정기준 1) 시험 前, 後 외관 변색 및 제품 이상 없을 것.					
			판정	OK		
■ 비교 - 외관 확인결과 이상무 - VSWR 양호할 것						

신뢰성 시험 결과서				작성	검토	승인
(비포장 낙하/ Drop test)				내부결재 완료		
작성자 : 지예진				작성일	2025-10-13	
■ RFD No.	8278	■ 제 품 명	ESL 32inch BLE	■ 특이사항 Result: 1) No Crack 2) No cracking of the plating layer 3) Checked VSWR: OK		
■ 색 상	-	■ 접수일자/ Ng ày bắt đầu test	2025-10-02			
■ 시 료 수	5	■ 시험기간/ Ng ày kết thúc test	2025-10-02			
항목	방법			시험 전(前)/ Trước khi test		시험 후(後)/ Sau khi test
비포장 낙하시험 (Drop test)	☐ 비품 : 낙하시험기(콘크리트판 or 철판 13mm) ☐ 방법 1) 높이 80cm, 6면, 각 2회 ☐ 판정기준 1) 전기적 특성 : 초기 Spec에 만족할 것 2) 부품에 균열, 박리, 변형 등 없을 것					
			판정	OK		
■ 비교 - 외관 확인 결과 이상무 - VSWR 이상 없을 것						

ANTENNA SPECIFICATION**5. ANALISYS DATA FOR RoHs****Request Form for Hazardous Substance Approval****■ Basic Information**

Vendor Name	Galtronics Korea	Maker P/N	02036073-08278
Contact Person	Liam.Choi	Tel (E-mail)	Liam.choi@galtronickorea.com
Part Name	ESL 32inch BLE		
Request Purpose	☒ NEW ☐ Changes in Development ☐ Changes in Production (ECN No.:)		
ECN Information	Please write the changes in details (including raw materials)		

■ Self Check

Check List	YES	NO	Remark
Upload all of the MSDS for raw materials	0		Name of Missing material
Upload all of the analysis report for raw materials	0		Name of Missing material
Use any new raw material		0	Name of New material

■ Label [Accessories]

Nation	Check List	YES	NO	Nation	Check List	YES	NO
EU	RoHS2 Address mark			Taiwan	Battery Recycle mark		
	WEEE symbol				Package Recycle mark		
	Battery Recycle mark			Turkey	RoHS Compliant Information		
	Package Green Dot mark				WEEE symbol		
China	RoHS Environmental Information	Unapplied		Brazil	Battery Recycle mark	Unapplied	
	Package Recycle mark			Korea	Package Recycle mark		
Japan	Battery Recycle mark			CIS	Package Recycle mark		
	Package Recycle mark			UAE	Package ECAS symbol		

■ Plastic Material Mark [Product Case]

Part Name	Material	Material Mark	Part Name	Material	Material Mark
		Unapplied			

Liam.Choi / 2025.08.01

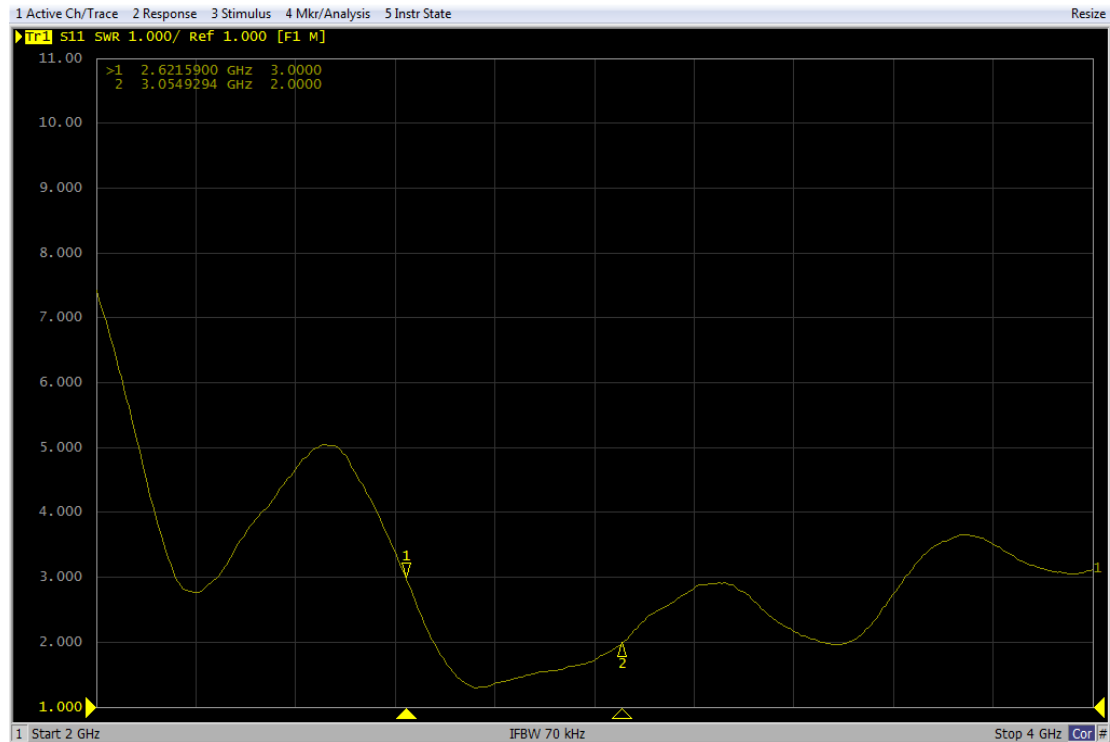
Environmental Officer : Liam.Choi

ANTENNA SPECIFICATION

■ Self Test Result

- XRF and Phthalate Test [Unit: PPM]

No.	Point	Type	Cd	Pb	Hg	Cr	Br	Cl	Sb	BBP	DBP	DEHP	DIBP
		Organic	70	700	700	700	900	900	1000	500	500	500	500
		Inorganic	70	700			-			-			
1	Adhesive Tape	Organic	3	0	0	0	0	13	82	ND	ND	ND	ND
2	Release Film	Organic	0	0	0	0	1	12	64	ND	ND	ND	ND
3	Solder Wire	Inorganic	0	4	0	0	0	0	0	ND	ND	ND	ND
4	Top Silk	Organic	13	1	0	0	2	0	0	ND	ND	ND	ND
5	Top Mask	Organic	6	13	0	0	5	29	27	ND	ND	ND	ND
6	FR4	Organic	0	11	0	15	3	269	8	ND	ND	ND	ND
7	Plating	Inorganic	5	6	32	0	0	0	0	ND	ND	ND	ND
8	Jacket	Organic	3	0	0	0	1	264	19	ND	ND	ND	ND
9	Shield	Inorganic	5	0	0	0	0	-	-	ND	ND	ND	ND
10	Insulator	Organic	0	1	0	2	1	401	0	ND	ND	ND	ND
11	Wire	Inorganic	0	0	0	75	8	-	-	ND	ND	ND	ND
12	Connector	Inorganic	27	0	2	0	9	-	0	ND	ND	ND	ND
13	Housing	Organic	0	1	0	0	0	0	0	ND	ND	ND	ND
[Remark]													
Reason for exceed specifications													

ANTENNA SPECIFICATION**6. VSWR QUALITY DATA****6-1 VSWR Graph on RF fixture**

- Start Frequency : 2000MHz, Stop Frequency : 4000MHz

6-2 Sampling test result

		단품 VSWR	
		Port1(BLE)	
		2621MHz	3054MHz
USL		4.00*	2.60*
TYP		3.00*	2.00*
LSL		2.00*	1.40*
Sampling Number	#1	3.15	1.96
	#2	3.10	2.01
	#3	3.13	2.03
	#4	3.07	2.02
	#5	3.22	1.85

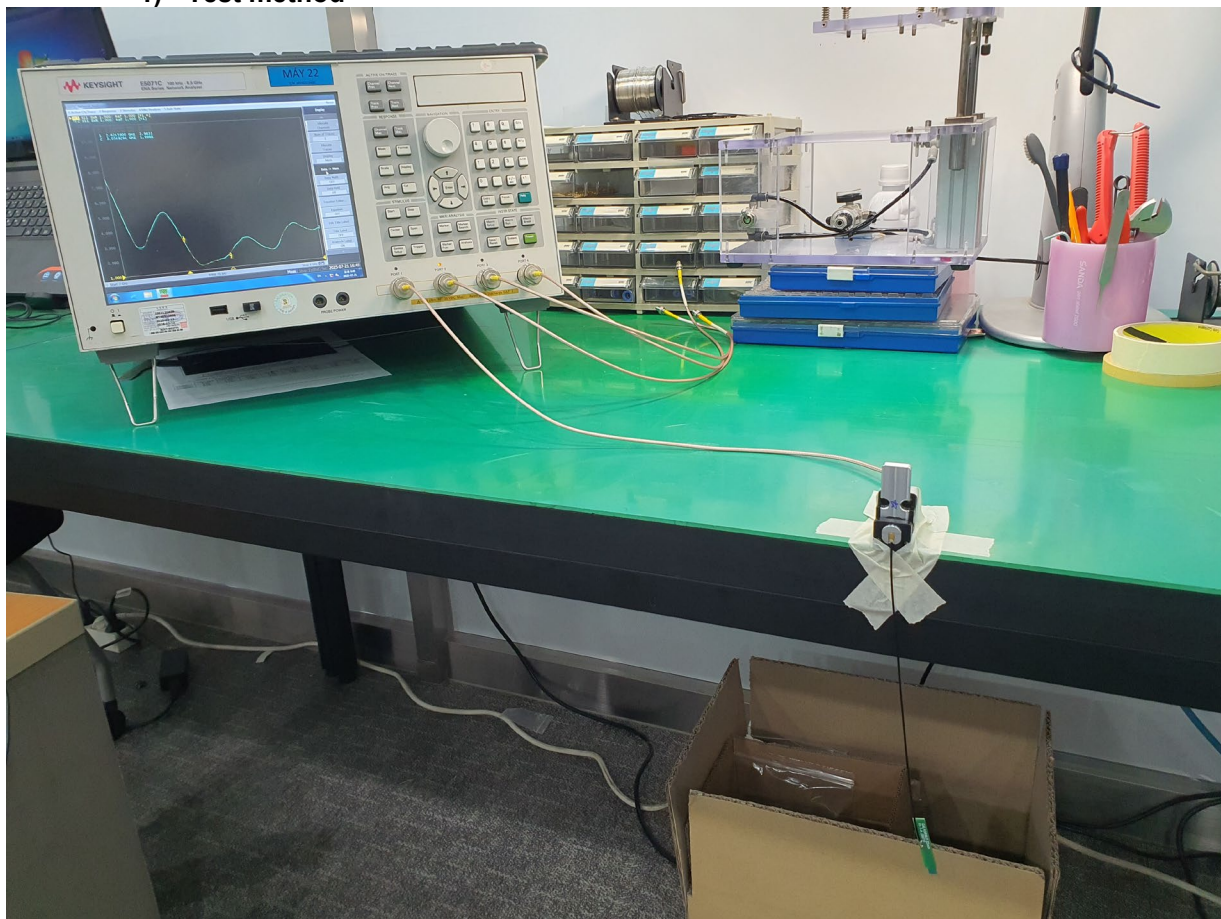
ANTENNA SPECIFICATION**7. ELECTRICAL SPECIFICATIONS:****7-1 Frequency band**

BLE
2400~2500 MHz

7-2 Frequency Test Spec

	Port1(BLE)	
	2621MHz	3054MHz
VSWR_{MAX}	4.00*	2.60*
VSWR_{REF}	3.00*	2.00*
VSWR_{MIN}	2.00*	1.40*

=> VSWR Deviation can be occurred by variation of N/A(Network Analyzer) and RF Jig and so on, therefore Markers(Frequencies) should be adjusted according to VSWR value of Master sample

1) Test method

PAGE 15 OF 16

10. WORK OPERATION SHEET

10-1. Cosmetic Inspection Standard.

Galtronics Korea									
Revision history / Lịch sử sửa đổi									
NO	Date/Ngày	Change/Đổi thay đổi	Rev.	Rev.					
0	2025-07-29	New / Lắp mới	Seven	A					
1	2025-10-13	Drawing Update	YEJH	B					
2									
3									
4									
5									

Document no: STD-QQC-8278-002

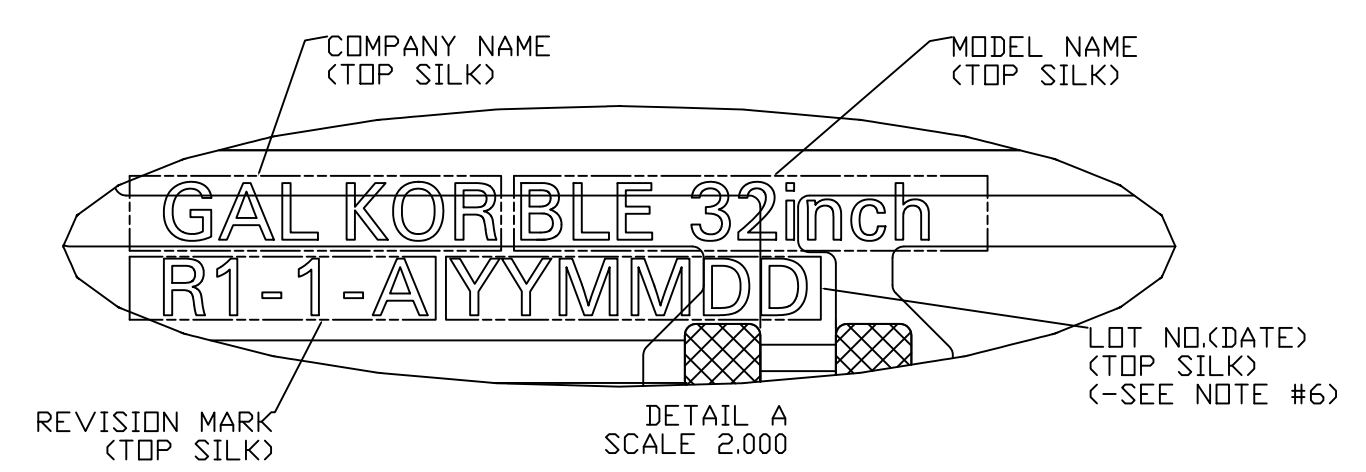
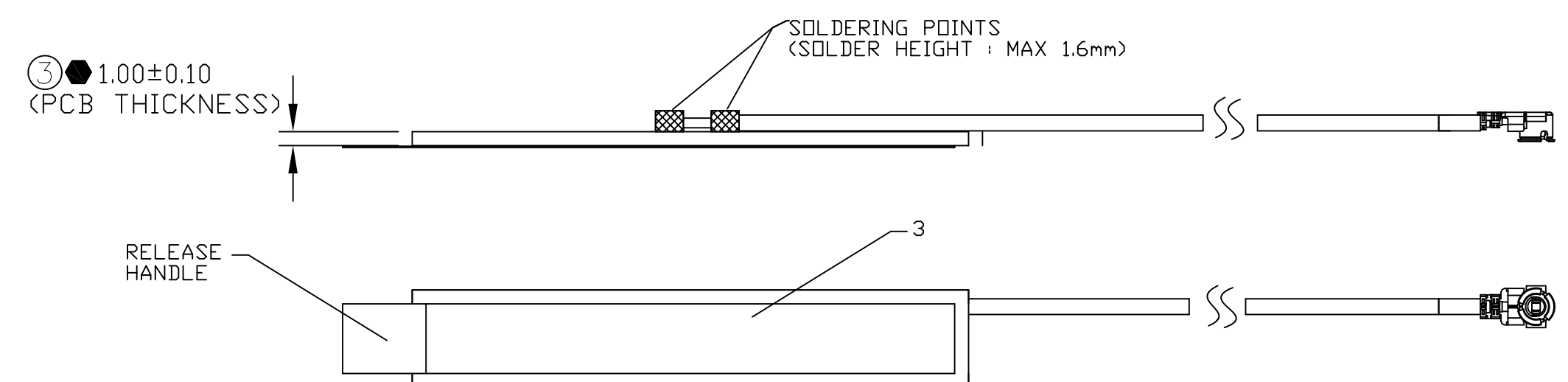
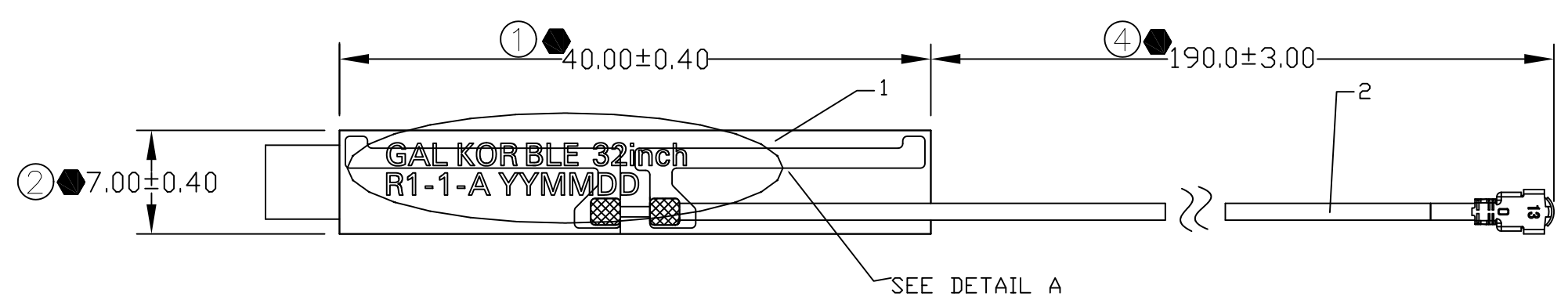
Tiêu Chuẩn Kiểm Tra Ngoại Quan OQC									
OQC Cosmetic Inspection Standard									
A P P R O V E D									
Seven									
Louis									
2025-10-13									
2025-10-13									

Model	ESL 32inch BLE (2.4GHz)	Customer Code	02036073-08278	RFD	8278	Drawing Version	B	NO	Item	Standard / Tiêu chuẩn kiểm tra	Qty / Số lượng	Method	Frequency
1. Cosmetic:													
Top													
Bottom													
2. NG Picture:													
No NG													
Inspection / Kiểm tra													
Top and Bottom:													
1. Check PCB: No missing Model.													
2. Check Cable: Not allowed deform, scratch, crack, open, no discolor, connector shouldn't have no abnormal issue.													
3. Check adhesive tape: No Omitted, No crack.													
4. Check solder point: No short, no lack of fusion shift, no missing, no cold solder, light solder													
5. Check solder point: No short, no lack of fusion shift, no missing, no cold solder, light solder													
6. Check solder point: No short, no lack of fusion shift, no missing, no cold solder, light solder													
7. Check solder point: No short, no lack of fusion shift, no missing, no cold solder, light solder													
8. Check solder point: No short, no lack of fusion shift, no missing, no cold solder, light solder													
9. Check solder point: No short, no lack of fusion shift, no missing, no cold solder, light solder													
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100. Check solder point: No short, no lack of fusion shift, no missing, no cold solder, light solder													

Checking condition standard : (1) Checking under lighting, 800 Lux ~ 1,200 Lux, (2) Distance from inspector eyes to checking point [viewing distance] 30 cm ~ 40 cm, (3) Viewing Angle 45°
Tiêu chuẩn khu vực kiểm tra: (1) Ánh sáng khu vực kiểm tra từ 800 ~ 1200 Lux. (2) Sản phẩm kiểm tra cách mắt 30-40cm. (3) Sản phẩm kiểm tra nghiêng góc 45 độ với ánh sáng.

10-2. Packing Working Standard.

날짜				개정번호				부서			
표준번호				PWI-#8278				Rev.1			
개정날짜				2025.07.24				Production			
모델				#8278 ESL_325inch_BLE (2.4GHz)							
● 부품				● 작업방법							
NO				Part No.				수량			
1				02036073-08278				제품 / Tray포장			
2				21-5403-06				Tray			
3				-				Inbox 라벨			
4				-				OutBox라벨			
5				21-7203-03				Out Box			
● 라벨 정보				● 포장 사양							
SOLIM CODE : 82836073-08278				VENDOR CODE : 18065160139							
LOT NO				: C508050801							
VENDOR PM				: 82836073-08278							
DATE CODE				: 20250805							
QTY				: 100000							
Galtronics / Yea Hwa Co., Ltd. Made in Vietnam N11.3											
Out Box 라벨				● 개정이력							
No.				변천				사유			
1				1.0				신규발행			
2											
3											
개정일자				2025.07.24							



NOTE.
1. '●' MARK MEANS CPK
2. '◻' MARK MEANS KMD(KEY MANAGEMENT DIMENSION).
3. '<' MARK MEANS REFERENCE DIMENSION.
4. '●' MEANS IS SOLDERING AREA. SOLDER SHOULD NOT OVERFLOW OUTSIDE PCB.
5. TOLERANCES UNLESS OTHERWISE SPECIFIED:
NO PLACE : X±1mm , ONE PLACE : X.X±0.2mm
TWO PLACE : X.XX±0.1mm , THREE PLACE : X.XXX±0.05mm
6. YY=YEAR, MM=MONTH, DD=DATE

3	ADHESIVE TAPE	<THICKNESS : 0.05mm>	1	COLOR : TRANSPARENTS
2	MHF1 CABLE ASSEMBY	ø1.13	1	COLOR : BLACK
1	PCB	FR4 <THICKNESS:1.0mm>	1	-
ITEM	NAME	MATERIAL	Qty.	FINISH