

ZHUHAI JIELI TECHNOLOGY CO.,LTD

KTB-3000E Project Antenna Material Requirements Specification

Customer Name: EMIETI(Shenzhen)Technology Co., Ltd

Customer Product Name: KTB-3000E

Product Name: AromaDiffuser

Product Specifications: See the BOM list for details

Material Code: KTB-3000E

Change History:

order number	edition	state	Start and End Dates	person liable	page number	remarks
1	R:A	editio princeps	2026-6-11	Li Jieyi	11	
2						

Supplier's acknowledgment signature:

Responsible Person/Date		IQC/ date	Review/Date	Approved/Date
MD				
RF				

Buyer's acknowledgment signature (please return after signing):

Buyer's determination result: ☐ Qualified ☐ Unqualified			
Development and Design Engineer / Date	SQE Engineer/Date	Procurement Manager/Date	Development Department Manager's Approval/Date

Catalogue

1. OVERVIEW	3
1.1 SCOPE OF APPLICATION	3
1.2 BASIC PROJECT INFORMATION	3
2. REQUIREMENTS FOR TECHNICAL SPECIFICATIONS	3
2.1 TEST ITEMS AND EQUIPMENT OVERVIEW	3
2.2 TESTING INSTRUCTIONS	3
3. TEST REPORT	4
3.1 PASSIVE ANTENNA PARAMETERS	4
3.2 ANTENNA EFFICIENCY AND GAIN – ARM	4
3.3 ACTUAL MEASUREMENT OF ANTENNA STAR SEARCH – ARM	5
3.4 ACTUAL MEASUREMENT DATA FROM BT	6
3.5 MATCHING CHANGES	6
3.6 ANTENNA APPLE CHART/DIRECTIONAL PATTERN – 1575 MHZ	6

1. Overview

1.1 Scope of Application

This specification defines the technical requirements for antennas and material specifications for products.

These requirements apply to the antenna selection, testing, and acceptance of products.1.

2 Basic Project Information

Antenna Name:	KTB-3000E
Antenna Frequency Band:	2400Mhz-2500Mhz

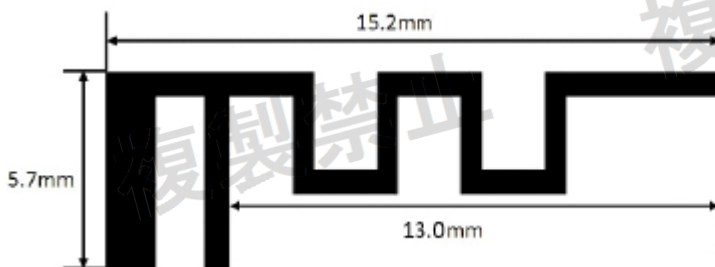
2. Requirements for Technical Specifications

2.1 Test Items and Equipment Overview

List	test item	equipment
S11 Parameters	Standing Wave Ratio, Echo Loss	network analyzer
Active Testing	TRP,TIS	Comprehensive tester, microwave anechoic chamber
Passive Testing	Gain, Efficiency	network analyzer

ITEM	ANTSPEC		
ModelName	KTB-3000E		
Center Frequency	Horizontal		Vertical
	2400MHz	-5.41dBi	2400MHz -5.69dBi
	2450MHz	-5.59dBi	2450MHz -6.47dBi
	2500MHz	-4.64dBi	2500MHz -5.36dBi
MAX.Gain	-4.64dBi		
Polarization	HorizontalandVertical		
AzimuthBeam Pattern	Omni-directional		
Impedance	50 Ohm		
AntennaLength	38.20mm		

AntennaPhoto&Length(mm)



3. Test Report

3.1 Passive Antenna Parameters

