

BT-FPC specification

Customer	
Customer Project No.	Cat-M1
Deman Project No.	H3446
Deman Part No.	TFPD05H34460021

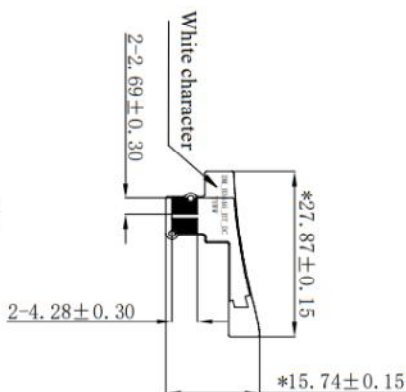
Deman	RF	ID	QE	PM
	Chen Chen	Liu Wubin	Ruan Chunhui	Ma Hengzhou

Customer	ID	RD	QE	PM

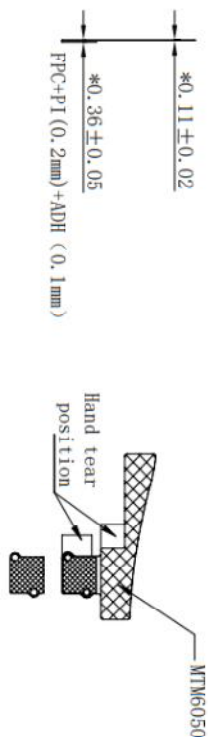
Date : 2024.12.11

Shanghai Deman Electronic Technology Co., Ltd
Shenzhen Deman Electronics Co.,Ltd

Top



Bottom



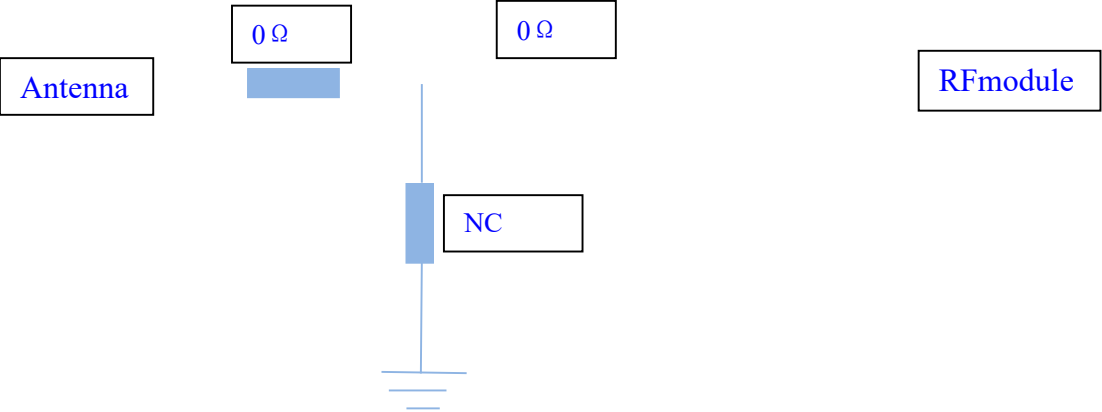
	7	8	9	10	11	12	13
SEQ NO.	REV. NO.	DATE	DESCRIPTION OF CHANGE		ECN NO.		Appr NO.
		2024/12/11	MASS PRODUCTION				

	Notes:					
	Pt	ED	ADH			
	Pt(0.5mil)	1/2oz	MTB05D			
1. Material	FINISH		PLATING			
	PRINTING INK		NI:27um, AU:MnO, OsOm			
2. Appearance	1.Printing Ink Color: Black 2.Solder Treatment is required in gold plated area to ensure salt spray test. 3.Appearance Inspection Per Dmm Testing Standards					
3. Reliability Requirements	1.Surface Insulating requirements are specified in the Dmm IPC Reliability Test Requirements. 2.The surface of the ink should be folded in half without cracking. 3.the surface is required to pass A88 salt stress test.					
4.Tolerance range	1.Center tolerance±0.1, 2.Copper foil thickness tolerance±0.005, 3.Copper foil to contour position tolerance±0.1S, 4.Dielectric Tolerance±10% due to hole position tolerance±0.1U, 5.Solderfinger lsk boundary and covering fillet solder size tolerances±0.3.					
5. CPK Measure	Mark (S9) for CPK, and take SPCS of products for CPK at will.					
6.Key control dimensions	Mark "*" as the key control items.					
7. Definition	X, Y are the slice measurement base,					
8. RoHS-HF	Meet the environmental hazardous substances control requirements of Europe.					
9. Packing	Microscopic microscope full plate alignment.					
	DRAWN BY	Liu rubin	2024/12/11	CHECKED BY(GR)	Chen chen	2024/12/11
	SERIAL number	Ink color	Part No	CHECKED BY	Wang Zong shun	2024/12/11
				APPROVED BY		
	MATERIAL		QUANTITY	TITLE		
	Beserve note		1	BT-FPC		
	3rd ANGLE PROJECTION	SIZE	SCALE	MODEL NAME	Cat_M1	REV.
		UNITS mm	1:1	DRAWING NUMBER		
				PART CODE NUMBER		
	TOLERANCES UNLESS OTHERWISE SPECIFIED					
*	HOLE DIA. VARIATION ±0.05					A
**	ANGULAR DIMENSION ±100°					
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****	THIS NOTICE DOES NOT IMPLY PATENTATION					1 of 1

Design Specifications	Typical	Units
Antenna	FPC	
working Frequency	【2400-2500】	MHz
Gain	【0.49~ 2.14】	dBi
Antenna efficiency	【50~ 53】	%
Return loss	<-5	
Ploriaztion	Linear polarization	
Axial Ratio	When the antenna is circularly polarized, note the axial ratio in the operating bandwidth	N/A
Radiation pattern	全向	
impedance	50 ohm	
Power handling	33	dBm
Interface	shard	
Overall dimensions	See drawing section	
Weight	NA	
Operatin Temp	-30 ----- 70	°
Storing Temp	-30 ----- 70	°

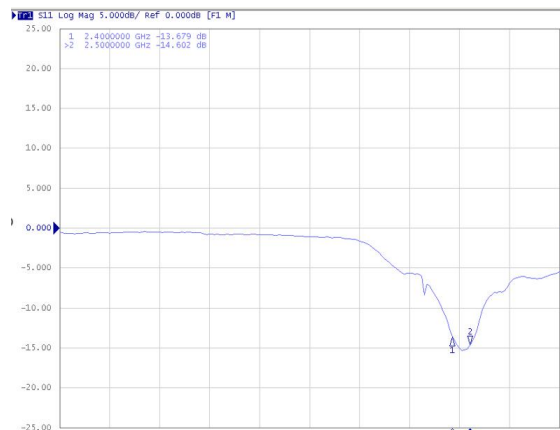
Deman	Date	2024.12.11	Version No	V1.0
	Subject	BT-FPC specification		

Rf link



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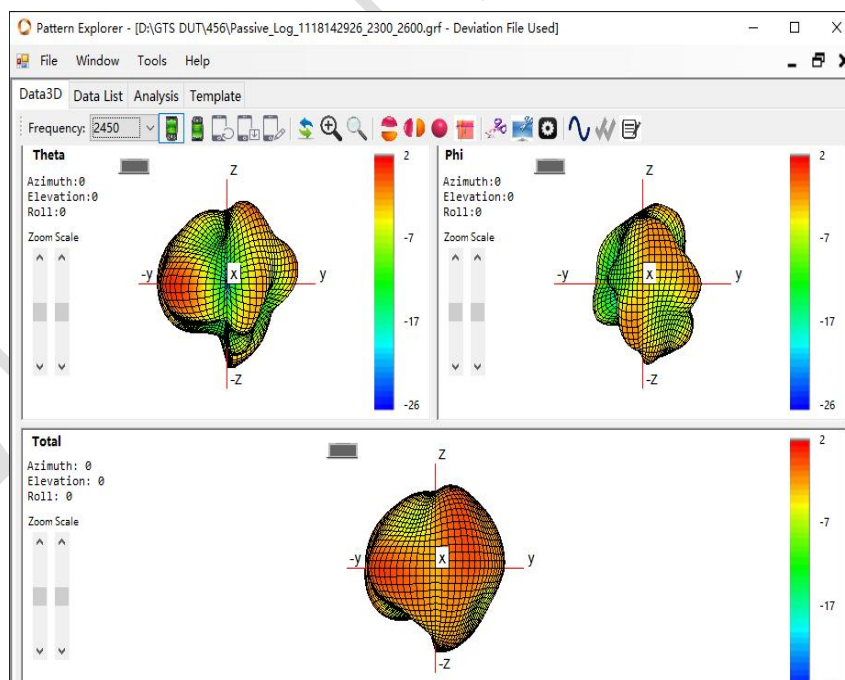
Passive performance



ANT3

Frequency(MHz)	S11(dB)
2400	-13
2500	-14

Directional diagram



Antenna efficiency

Frequency point	efficiency (dB)	Gain (dBi)
2400	-3.01	1.93
2410	-2.94	2.01
2420	-2.81	2.12
2430	-2.75	2.14
2440	-2.69	2.1
2450	-2.74	1.95
2460	-2.83	1.72
2470	-2.79	1.56
2480	-2.74	1.37
2490	-2.94	0.91
2500	-3	0.49