

2.4&5GHz FPC Antenna: ANF3811B2455F8K1

Application:

WLAN, 802.11.a/b/g/n/ac, Bluetooth, etc...

Features

High reliability, ultra Impact, Omni-directional...



ANT



ANT feed

Part number

ANF 3811 B 2455 F8 K1
(1) (2) (3) (4) (5) (6)

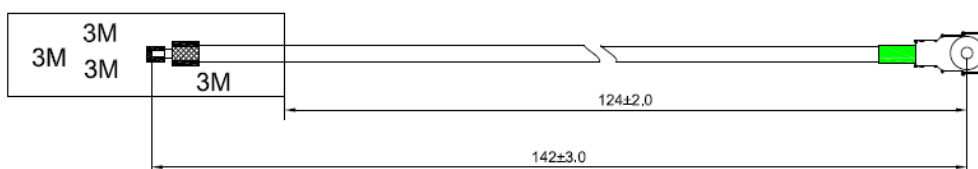
(1) Product code	ANF
(2) Product size	38*11.2mm
(3) Packing	IN Bulk
(4) Frequency	2.4GHz&5GHz
(5) Series	F8
(6) Type	K1

Electrical Specification

Working Frequency Range	2402~2480MHz 5700~5800MHz
Peak Gain	1.33dBi(type)
Impedance	50 Ohm
VSWR	3.0 Max
Polarization	Linear
Azimuth Beam width	Omni-directional
Azimuth Beam width	-30~70℃

Frequency(MHz)	Effi (%)	Peak Gain (dBi)
2400~2500	28.03~36.73	-1.53~1.22
5150~5850		

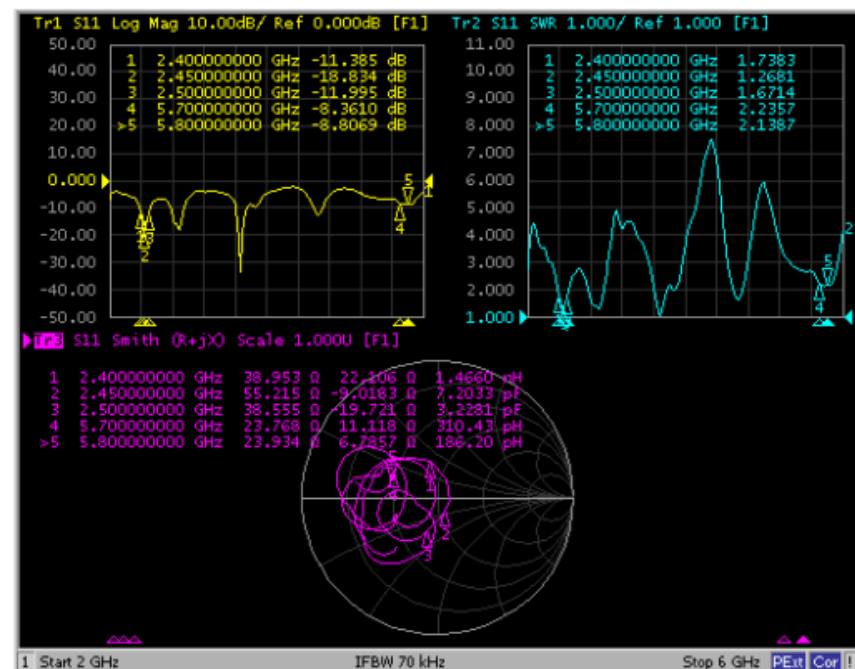
Dimension and Terminal Configuration



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Electrical Characteristics

Antenna S parameter



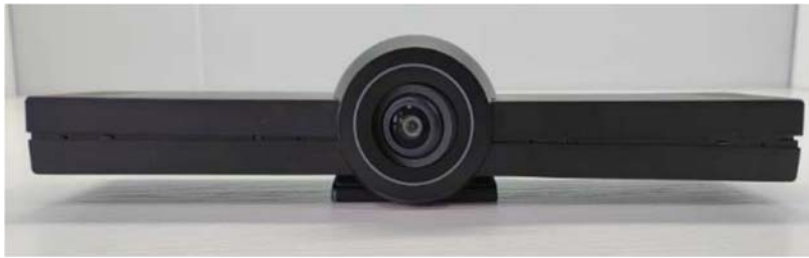
Item_V2	Value					
Frequency(MHz)	2400	2450	2500	5700	5750	5800
Smith(Ω)	38.95	55.21	38.55	23.76	50.43	23.93
Return loss(dB)	-11.38	-18.83	-11.99	-11.99	-10.06	-8.80
VSWR	1.73	1.26	1.67	1.67	1.99	2.13

Antenna Passive parameter

Frequency (MHz)	Efficiency (%)	Mean (dBi)	Peak Gain (dBi)
2400	35.47	-4.5	0.88
2420	33.41	-4.76	0.95
2440	37.32	-4.28	1.76
2460	38.69	-4.12	2.33
2480	41.57	-3.81	2.91
2500	38.08	-4.19	2.59
5700	31.66	-5	0.95
5720	30.10	-5.21	0.31
5740	30.61	-5.14	0.44
5760	31.76	-4.98	0.49
5780	29.11	-5.36	0.22
5800	30.58	-5.15	0.46

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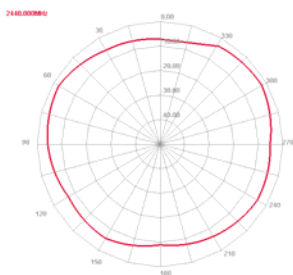
Radiation Pattern



2440MHz

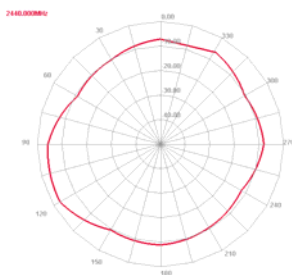
E1 Face

2440.000MHz



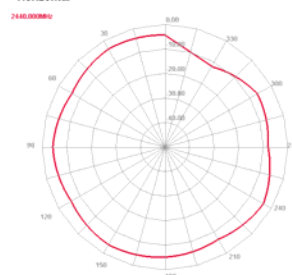
E2 Face

2440.000MHz



Horizontal

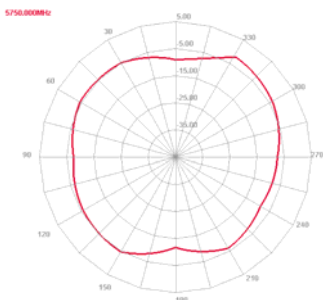
2440.000MHz



5750MHz

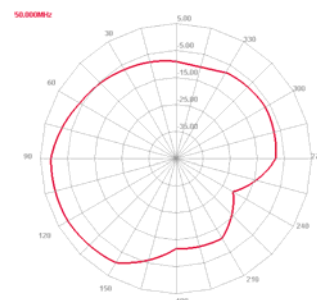
E1 Face

5750.000MHz



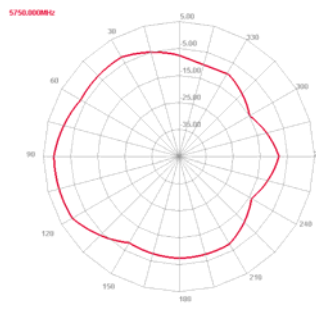
E2 Face

5750.000MHz

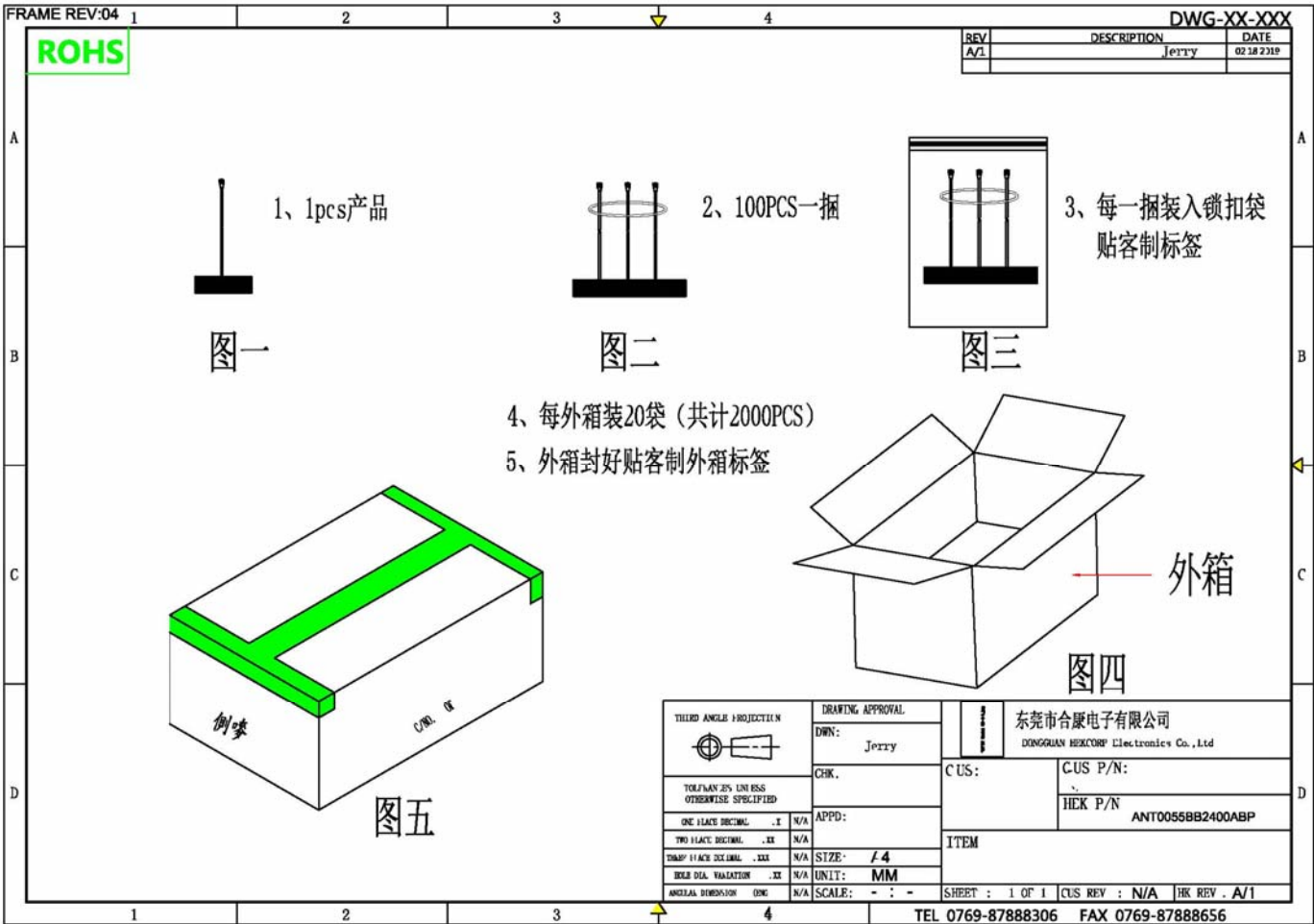


Horizontal

5750.000MHz



Packing



Revision History

Version	Date	Description
Ver.01	Aug .2023	New issue.
Ver.02	Aug.2023	Change the silk screen from ANT2 to ANT1.
Ver.03	Nov.2023	Modify coaxial cable length/add red heat shrink bushing.