

BTPA Series



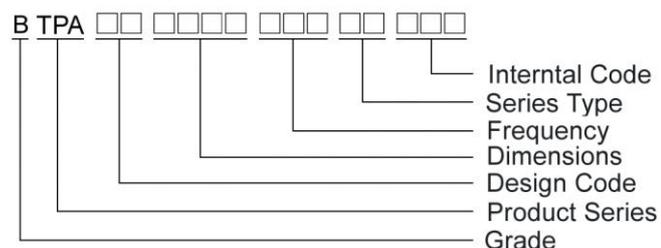
Features

- Small size low-profile, low cost and lightweight type
- Wide bandwidth and Omni-directional
- Supported with Dip-type, SMD, and Co-axial cable connecting
- Customized

Applications

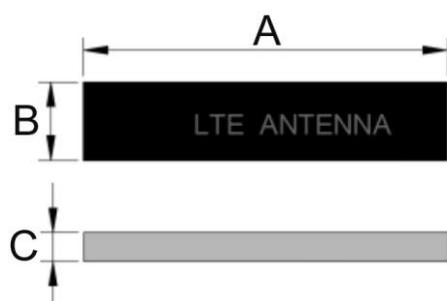
- Bluetooth, Wireless Router, Set Top Box and Home digital
- ISM band, Lora, Sigfox, LTE, NB-IOT, GPS, WiFi and Car use.

Product Identification

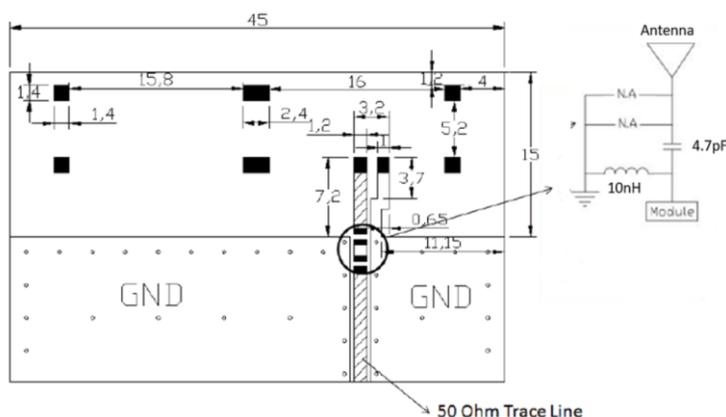


Shapes and Dimensions

FIG 1



Recommend foot print for Evaluation Board

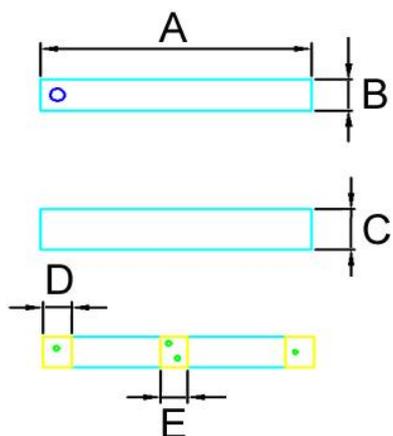


Dimensions in mm

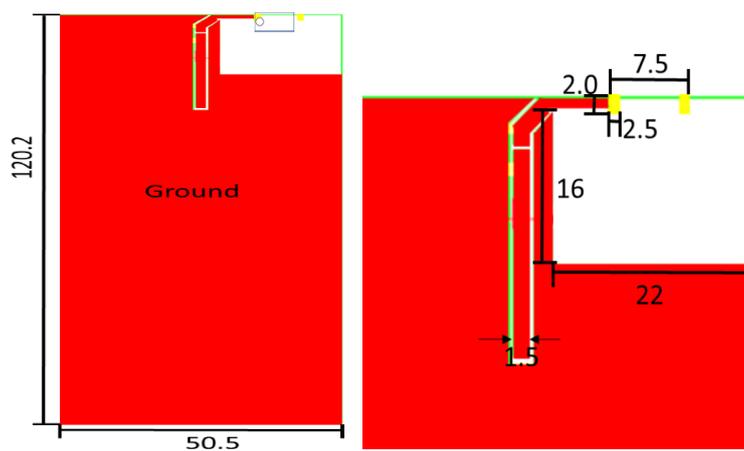
TYPE	FIG	A	B	C
BTPA0038084G0D1A01	1	38	8	3

Shapes and Dimensions

FIG 2



Recommend PC Board Pattern



Dimensions in mm

TYPE	FIG	A	B	C	D	E
BTPA0070200G8D1A01	2	7±0.3	2±0.3	1.2±0.3	0.85±0.2	0.75±0.2

PCB Chip Antenna BTPA Series

Electrical Characteristics

Part Number	Frequency Range (MHz)	Impedance (Ω)	Return Loss (dB)	Efficiency	Termination
BTPA0038084G0D1A01	698~2690	50	<-3	698~824MHz >20% 824~960MHz >40% 1710~2170MHz >50% 2170~2690MHz >40%	Ag (Environmentally-Friendly Pb)

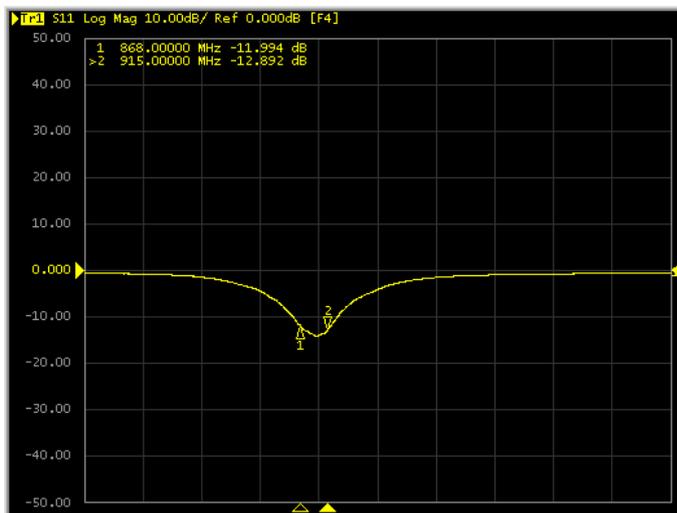
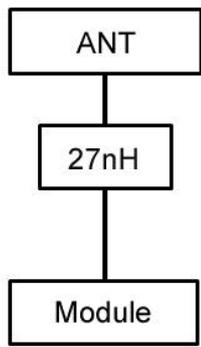
- Operating temperature range - 40°C ~ +80°C
- Storage temperature range - 45°C ~ +85°C

Part Number	Impedance (Ω)	Test Frequency (GHz)	Bandwidth* (MHz)	Peak Gain* (dB)	VSWR (Max)	Polarization
BTPA0070200G8D1A01	50	868~915	37	0~2	2	Linear

- Operating temperature range - 25°C ~ +125°C
- Storage temperature range 20°C ~ 25°C

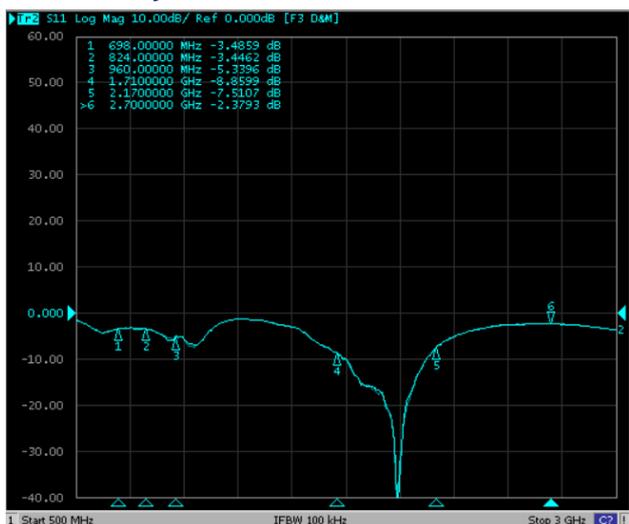
Test Instruments :

BTPA0070200G8D1A01

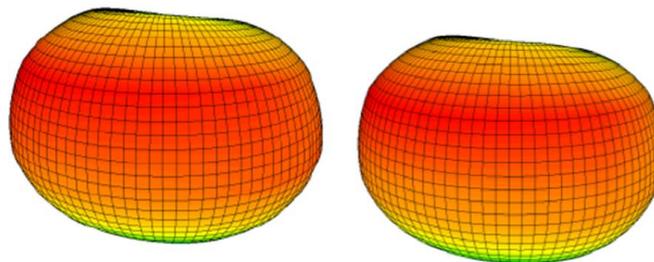


BTPA0038084G0D1A01

Network Analyzer Test



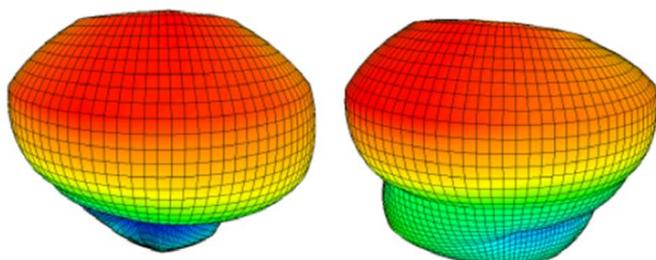
Peak Gain and Efficiency



824 MHz

960MHz

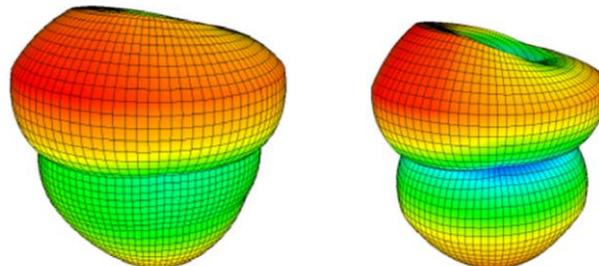
Layer	824(MHz)	915(MHz)	960(MHz)
Peak Gain(dB)	-0.52	0.12	-0.31
Efficiency(%)	54.12	58.13	52.37



1710MHz

2170MHz

Layer	1710MHz	1809MHz	1908MHz	2170MHz
Peak Gain(dB)	1.03	1.15	1.13	1.07
Efficiency(%)	68.56	71.12	70.91	69.32



2100MHz

2700MHz

Layer	2100(MHz)	2500(MHz)	2700(MHz)
Peak Gain(dB)	2.13	1.35	1.16
Efficiency(%)	77.71	45.14	43.5

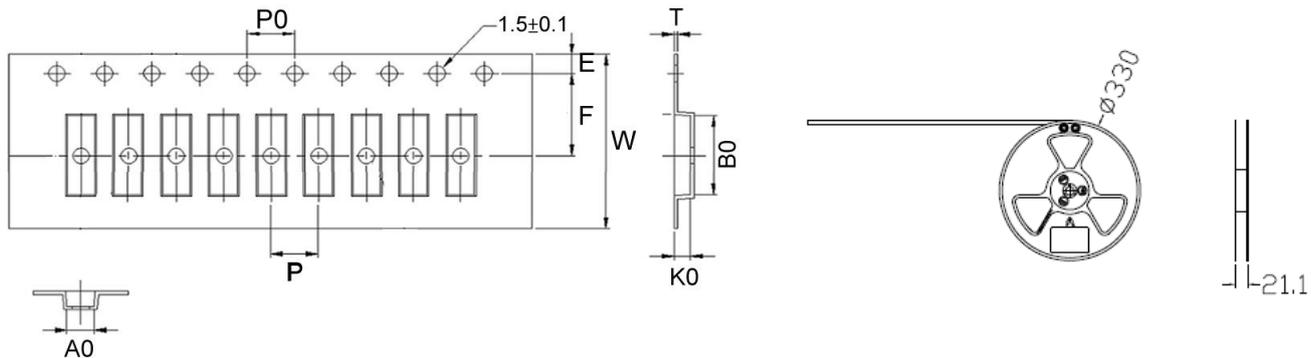
PCB Chip Series Antenna – BTPA Series

Packaging Specifications

Tape Dimensions

Reel Dimensions

FIG 1



Dimensions in mm

TYPE	FIG	Tape Dimensions										Packing Specification		Quantity
		A0	B0	T	E	W	P	P0	F	K0	Bundle	PE Bag	PCS / REEL	
BTPA003808	-	-	-	-	-	-	-	-	-	-	-	25	100	-
BTPA007020	1	1.2	8.2	0.3	1.75	16	4	4	7.5	1.45	-	-	10000	