Chipsmall

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts,Customers Priority,Honest Operation,and Considerate Service",our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!

Contact us

SPECIFICATION

Part No.　　　　　:　**BPF.24.01**

Product Name　:　Airvu 2.4GHz Band Pass Filter

　　　　　　　　　　for UAV/Drone Antennas

Features　　　　:　RP SMA(M) Plug to RP SMA(F) Jack

　　　　　　　　　　Frequency Range:2400-2500MHz

　　　　　　　　　　Pass band Width: 100MHz

　　　　　　　　　　Insertion Loss: <1.3 dB

　　　　　　　　　　Material : Brass

　　　　　　　　　　Finish: Black Nickel Plated

　　　　　　　　　　Total Length: 35mm

1. Introduction

The Airvu BPF.24 2.4GHz Band Pass Filter is placed on the end of the antenna port to help eliminate or reduce radio interference problems on UAVs and thus optimize radio system performance. It does this in two ways

1. It reduces out of band noise entering the receiver causing effects such as reduction of control range
2. It reduces the antenna transmissions of out of band noise affecting other circuitry on your UAV (such as disrupting the GPS receiver leading to loss of fix, or a live video stream at 2.4 GHz)

The ceramic filter technology inside the BPF.24 has superior insertion loss and stop band performance than competing LTCC or lumped element filters, while also having good rejection at band edges. It uses a standard RP SMA(M) Plug to RP SMA(F) Jack interface, as most antennas at 2.4GHz have a RP SMA(M) connector. This filter is designed to be easily screwed onto this standard antenna SMA connector.

Contact your regional Taoglas office for support

2. Specification Table

ELECTRICAL		
Pass Band Frequency		2400-2500MHz
Pass band Width		100MHz
Input / Output Impedance		50 Ohm
Max. Input Power		10W
Pass Band Insertion Loss		1.3dB max
Pass Band Ripple		0.8dB max
Pass Band Return Loss		9.6dB min
Stop-Band Attenuation	at 2033~2098MHz	30dB min
	at 2100MHz	25dB min
	at 2786MHz	15dB min
	at 4900~6000MHz	15dB min
MECHANICAL		
Connector type		RP-SMA(M) to RP-SMA(F)
Weight		8.815g
Dimensions		35*10mm
ENVIRONMENTAL		
Operating Temperature		-40°C to 85°C

3. Electrical Specifications

S21

In Band View
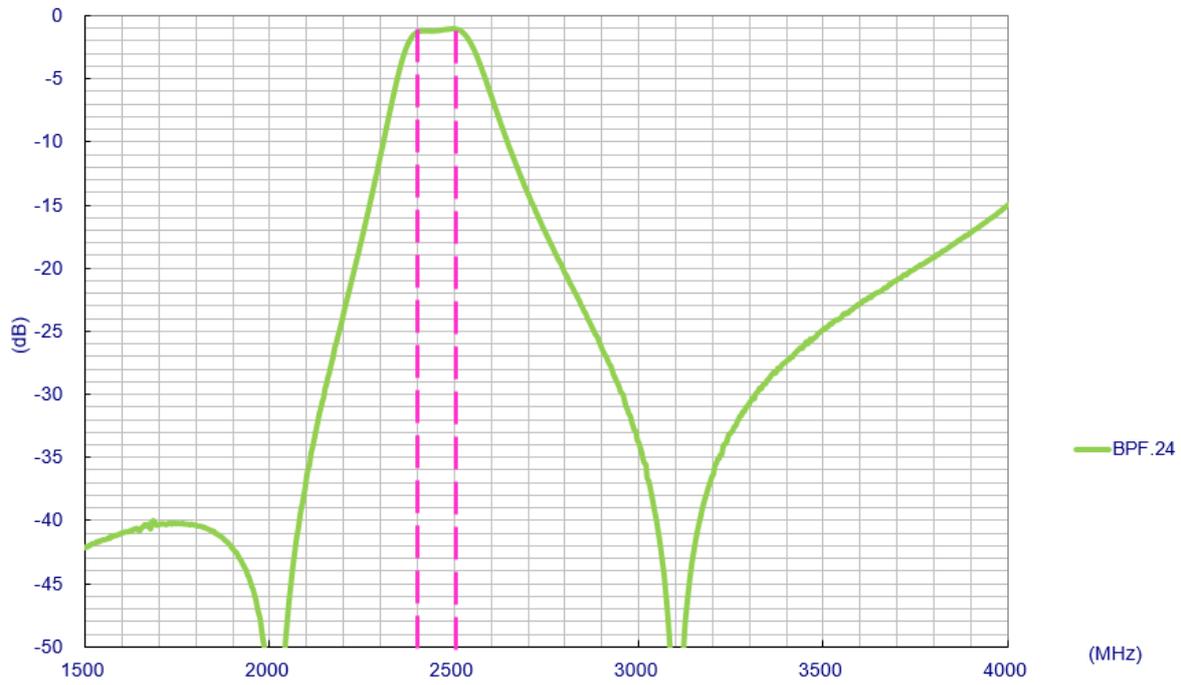
Wide Band View
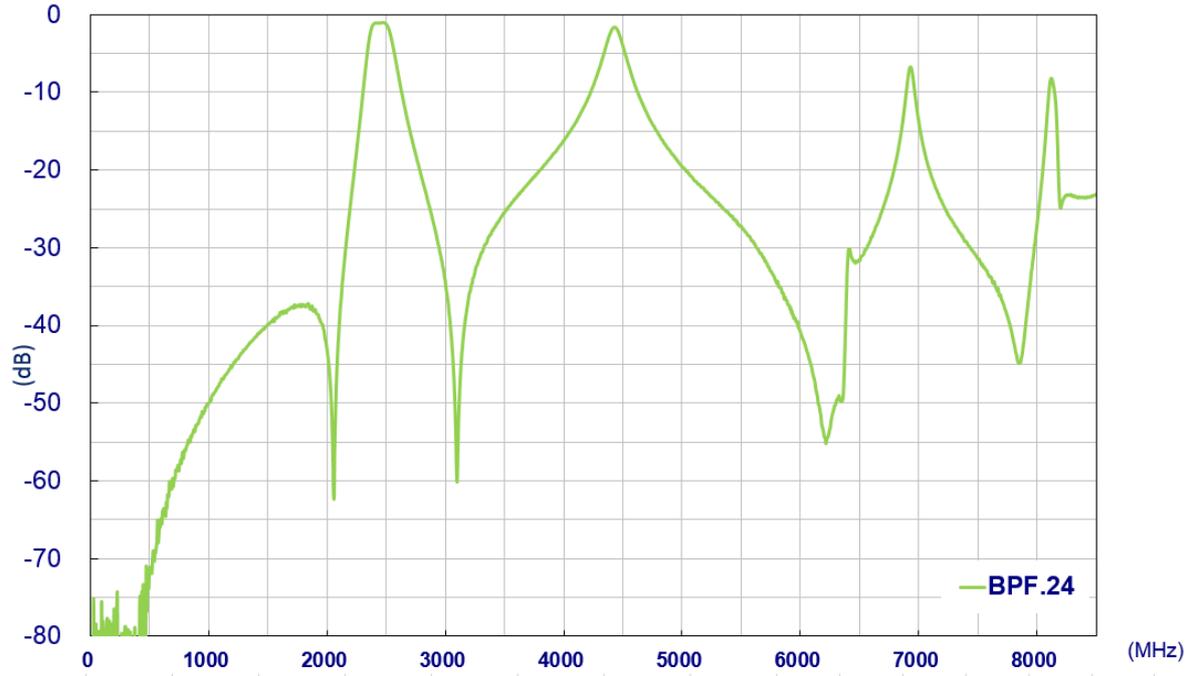
4. Mechanical Drawing (unit: mm)
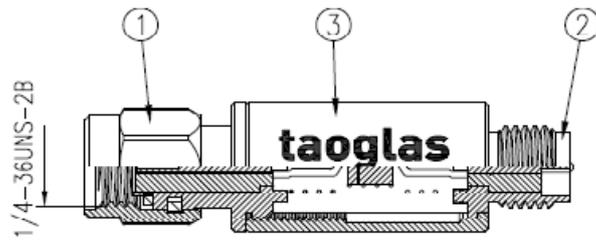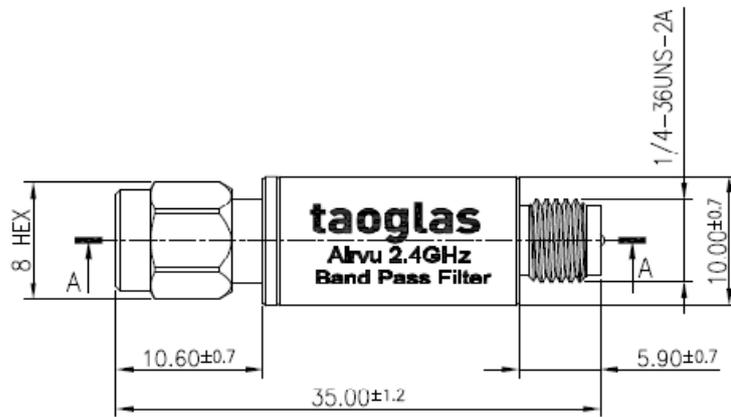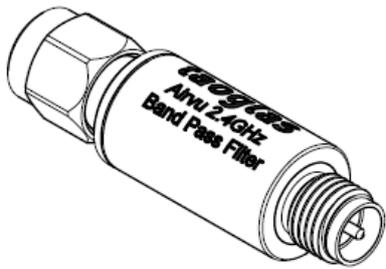
	Name	Material	Finish	QTY
1	RP-SMA(M)	Brass	Ni Plated	1
2	RP-SMA(F)	Brass	Ni Plated	1
3	Shell	Brass	Black-Ni Plated	1

5. Packaging

BPF.24.01

Packaging Specifications

36 pcs BPF.24.01 per tray
(3 pcs per section)
Tray Dimensions - 257*147*17mm
Total Weight - 375g

147mm
257mm
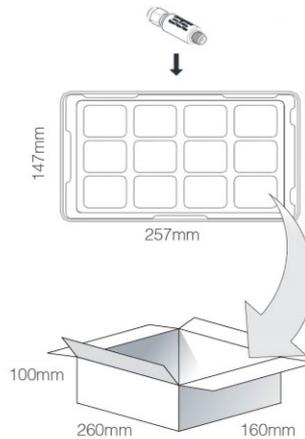
9 trays / 324 pcs per box
Box Dimensions - 260*160*100mm
Weight - 3.4Kg

100mm
260mm
160mm
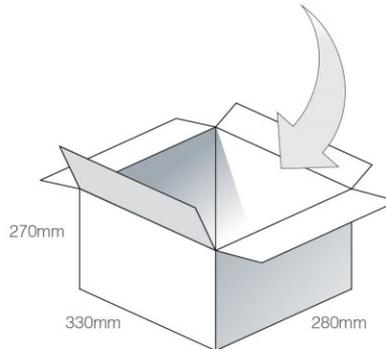
4 boxes / 1296 pcs per per carton
Carton Dimensions - 330*280*270mm
Weight - 14Kg

270mm
330mm
280mm

Pallet Dimensions 1100*1100*1530mm
60 Cartons per pallet
12 Cartons per layer
5 Layers

1500mm
1200mm
1200mm