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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

Tel: +86-755-8981 8866 Fax: +86-755-8427 6832

Email & Skype: info@chipsmall.com Web: www.chipsmall.com

Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China



SPECIFICATION

Part No. : **BPF.58.01**

Product Name : Airvu 5.8 GHz Band Pass Filter
For UAV/Drone Antennas

Features : RP SMA(M) to RP SMA(F)
Frequency Range: 5480 - 5850 MHz
Insertion Loss: <2.1 dB
Material : Brass
Finish: Black Nickel Plated
Total Length: 35 mm



1. Introduction

The Airvu BPF.58 5.8GHz Band Pass Filter is placed on the end of the antenna port to eliminate or reduce radio interference problems on UAVs. It does this in two ways

1. It reduces out of band noise entering the receiver and 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 the control signal at 2.4GHz)

The ceramic filter inside the BPF.58 has better 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 5.8GHz have a RP SMA(M) connector as standard. This filter is designed to be easily screwed onto this standard antenna SMA connector.

[Contact your regional Taoglas office for support](#)

Note

There can still be noise issues that a filter cannot solve. Such as noise that can be radiated directly from the transmitter board and any wiring. Also no filter can protect from in-band noise within the assigned operating frequency of the receiver. Always try to place noisy components as far away from a receiver and antenna as possible.

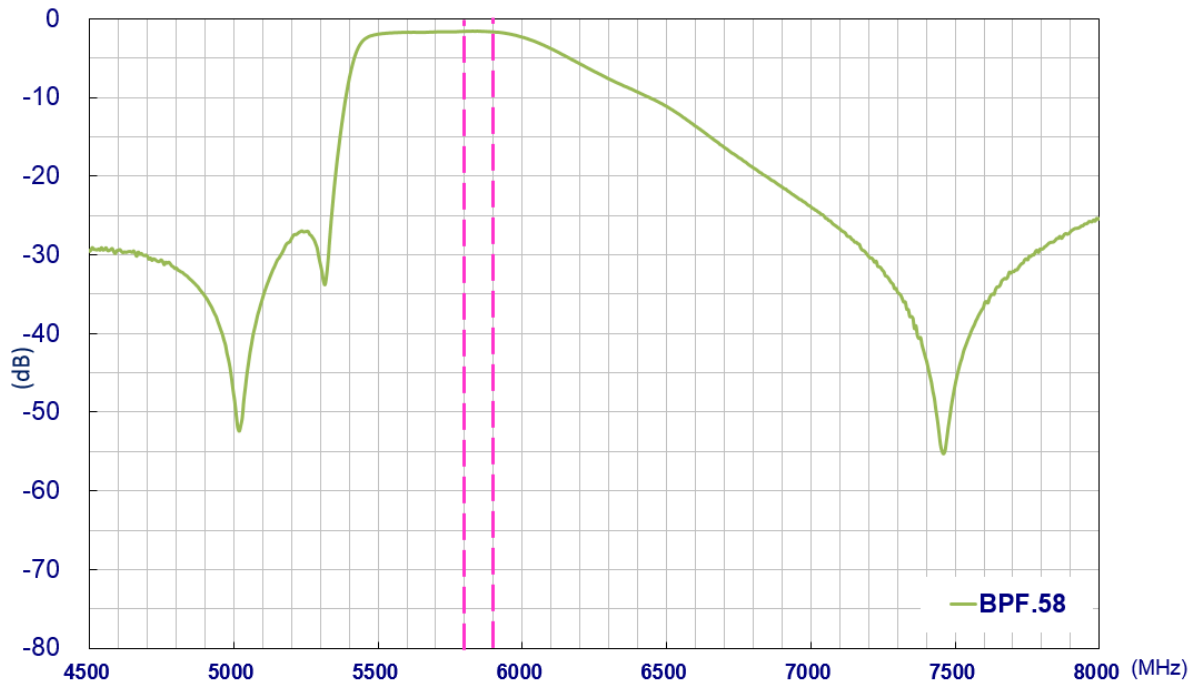
2. Specification Table

ELECTRICAL		
Pass Band Frequency	5480-5850 MHz	
Pass Band Width	70 MHz	
Input / Output Impedance	50 Ohm	
Max. Input Power	10W	
Pass Band Insertion Loss (0°C~70 °C)	2.1 dB or less	
Pass Band Ripple	1.5 dB or less	
Pass Band Return Loss	10 dB or more	
Stop-Band Attenuation	at 5150~5340 MHz	17 dB or more
	at 7500~7700 MHz	25 dB or more
ELECTRICAL		
Connector type	RP-SMA(M) & RP-SMA(F)	
Weight	8.865g	
Dimensions	35*10mm	
ENVIRONMENTAL		
Operating Temperature	-40°C to 85°C	

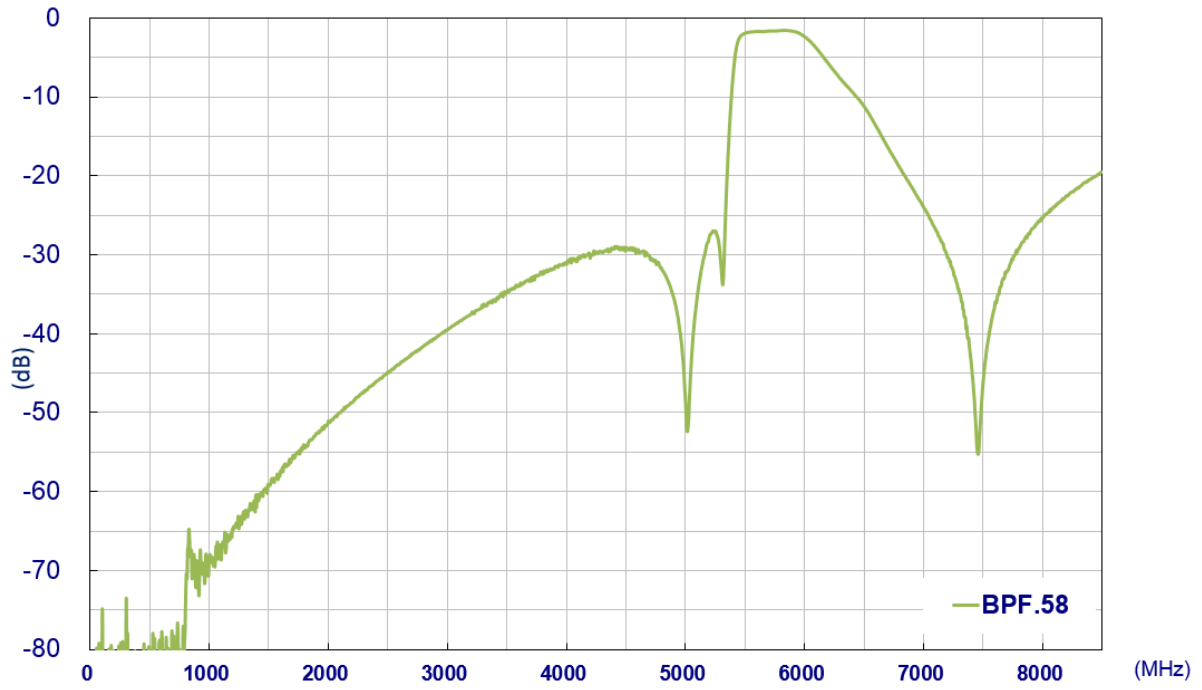
3. Electrical Specifications

3.1 S21

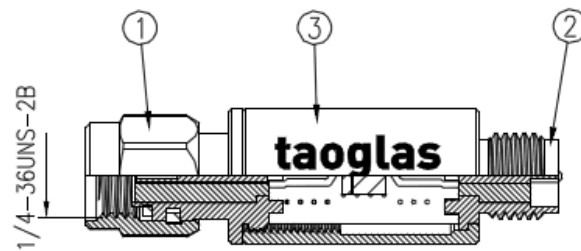
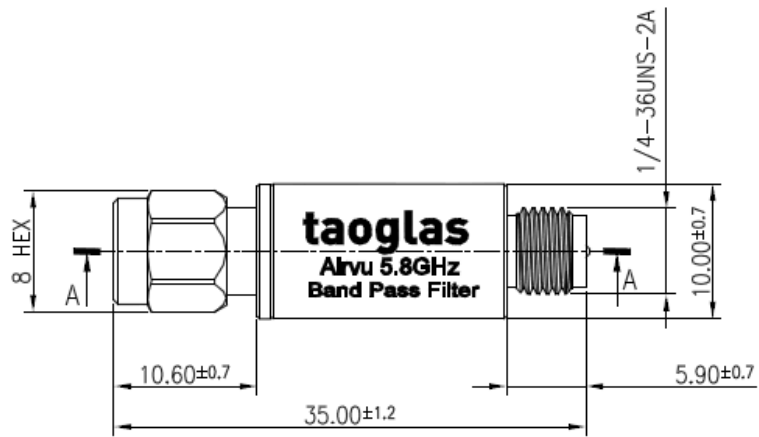
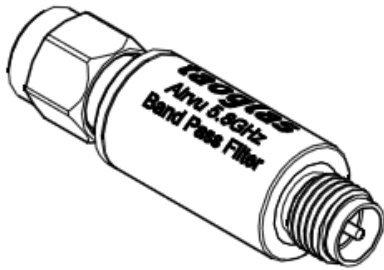
In Band View



Wide Band View



4. Mechanical Drawing (unit: mm)



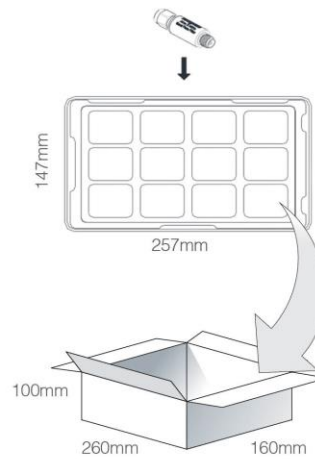
	Name	Material	Finish	QTY
1	RP-SMA(M)	Brass	Ni Plated	1
2	RP-SMA(F)	Brass	Ni Plated	1
3	Shell	Brass	Black-Ni Plated	1

5. Packaging

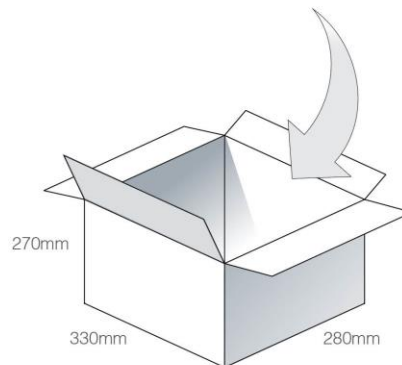
BPF.58.01

Packaging Specifications

36 pcs BPF.58.01 per tray
 (3 pcs per section)
 Tray Dimensions - 257*147*17mm
 Total Weight - 374g



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



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

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

