

# Band Pass Filter

## OBP-430000-6000

Ocean Microwave band-pass filter (Ocean band-pass filter „ abbreviation : abbreviation : OBP) is a filter that allows waves of specific frequencyband to pass through while rejecting other frequency bands.

The product name of this Ocean band-pass filter (OBP) is OBP-430000-6000 ,its Center Frequency(F0) is 43GHz, its Pass Band Bandwidth is 40~46GHz, its Pass Band Insertion Loss is  $\leq 1.3\text{dB}$ , Pass Band VSWR and the Stop Band frequency is  $\geq 80\text{dB}$  @DC~36GHz  $\geq 40\text{dB}$  @36~38.5GHz  $\geq 40\text{dB}$  @47.7~50GHz  $\geq 80\text{dB}$  @50~58GHz



### Electrical Specifications

Item	Parameters
Center Frequency(F0)	43GHz
Pass Band Frequency	40 ~ 46GHz
Pass Band Insertion Loss	$\leq 1.3\text{dB}$
Pass Band Ripple	$\leq 0.55\text{dB}$
Pass Band Return Loss	$\geq 17\text{dB}$
Stop Band Rejection	$\geq 80\text{dB}$ @ DC ~ 36GHz $\geq 40\text{dB}$ @ 36 ~ 38.5GHz $\geq 40\text{dB}$ @ 47.7 ~ 50GHz $\geq 80\text{dB}$ @ 50 ~ 58GHz
Impedance	50 Ohms
Power Handling	5W Max.
Connectors	2.4mm(Q)-Female
Surface Finish	Painted Black
Temperature Range	-30°C ~ +70°C
Material	Housing: H62 Copper alloy      Connectors: Stainless Steel Cover: H62 Copper alloy      Other screw: Stainless Steel Tuning screw: H62 Copper alloy
Dimensions	40*16*8mm
Net weight	0.042 KG

### PRODUCT DIMENSIONS

