

The **AW-BPF-3700-4100-S** is a compact IP67-rated waterproof cavity band pass filter with a passband of **3700–4100 MHz**. It combines low insertion loss (<0.5 dB typ.) with high out-of-band rejection in a rugged outdoor housing, making it ideal for tower-mount and outdoor deployments.

Features

- Low insertion loss: <0.5 dB typical (<0.7 dB max.)
- High selectivity cavity design with sharp roll-off
- IP67 waterproof housing for outdoor / tower-mount use
- Average power handling >50 W
- Wide operating temperature: –40 °C to +85 °C
- Compact footprint: 79.2 × 44.2 × 27 mm, flange mounting

Applications

US C-band 5G (n77 upper); Japan/Korea 3.7–4.1 GHz; coexistence filtering.

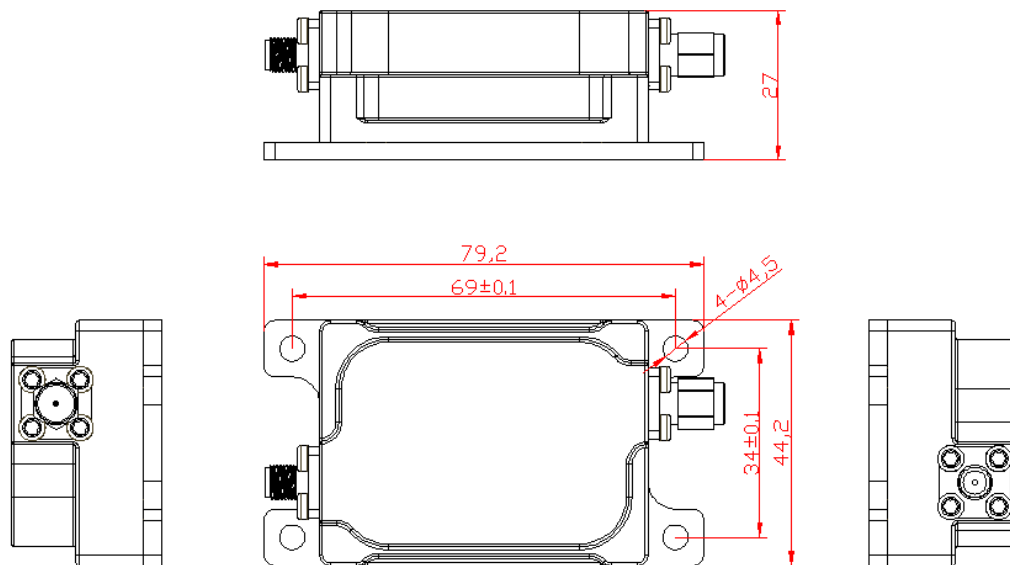
Electrical Specifications

Parameter	Unit	Specification
Pass Band	MHz	3700 – 4100
Insertion Loss	dB	< 0.5 typical; < 0.7 max.
VSWR	–	< 1.3
Impedance	Ω	50
Rejection (Attenuation)	dB	>75 dB @ DC – 3350 MHz >30 dB @ 3350 – 3500 MHz >40 dB @ 4300 – 4350 MHz >55 dB @ 4350 – 4600 MHz >20 dB @ 4600 – 8500 MHz
Average Power	W	> 50
Operating Temperature	°C	–40 to +85

Mechanical Specifications

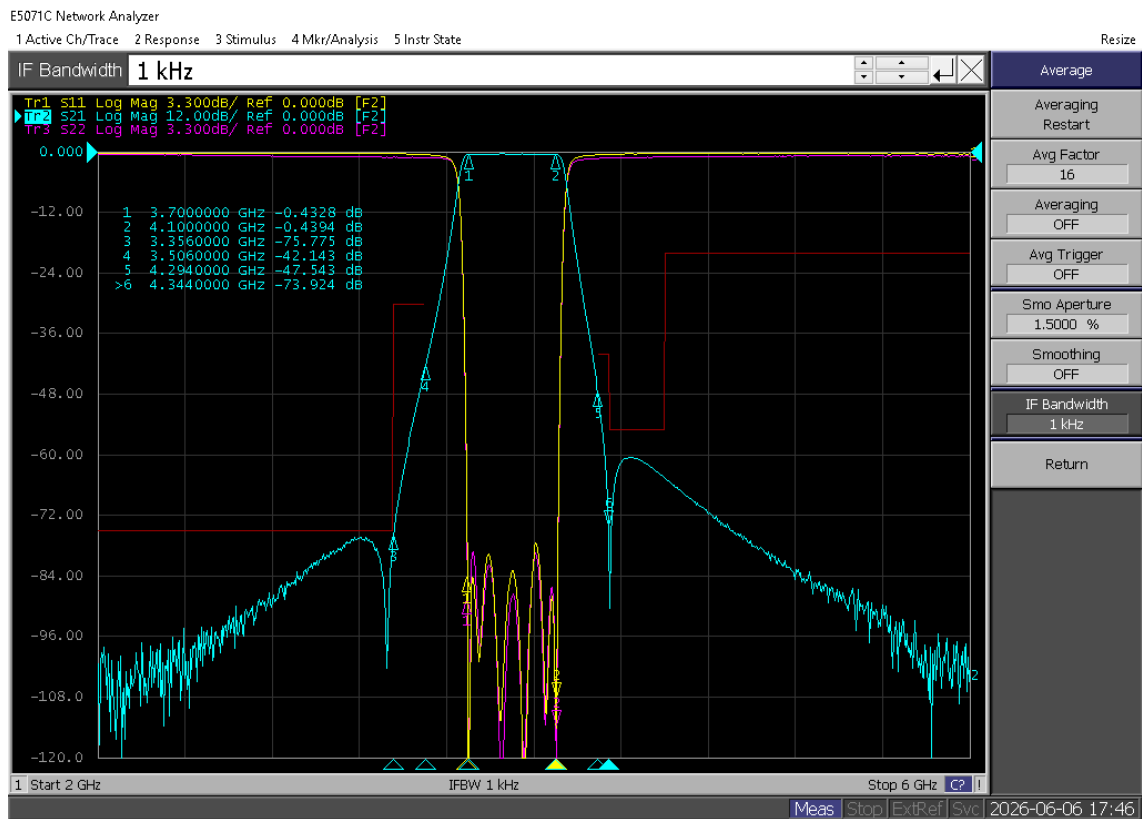
Connectors	–	SMA Female / SMA Male (SMA-K / SMA-J)
Ingress Protection	–	IP67
Dimensions (L × W × H)	mm	79.2 × 44.2 × 27 (mounting holes 4 × Ø4.5, 69 × 34 mm)
Color / Finish	–	Gray

Outline Drawing



Unit: mm. Tolerances unless otherwise specified: ±0.2 mm.

Typical Measured Response (S21 / S11)



Measured on vector network analyzer; typical unit shown.