



Features and Benefits

- Small size and self-shielded -Weight: 0.2g
- Flat passband with low loss
- Rejection of LO and image frequencies
- Repeatable performance

 Low part-to-part variation
- Ease of assembly - Standard SMT processes

Applications

Upconverters

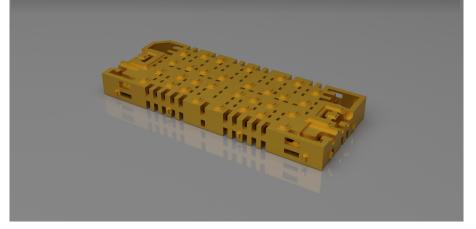
Downconverters

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Satellite Communications

Part Number PSF30B01S



29 - 30 GHz Bandpass Filter

High Q surface mount filter for satellite up and down converters.

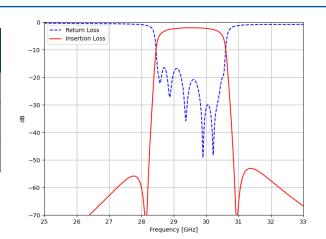
Description

Nuvotronics PolyStrata® Technology provides high performance filtering in a small form factor (10.14mm x 4.0mm x 1.1mm). The PSF30B01S surface-mount filter provides low insertion loss, a flat passband, and high rejection. Typical rejection is 55 dB at 950 MHz below the pass band. This part is ideal for satellite up and down converter applications. The filter is compliant with standard SMT assembly processes. Tape and reel packaging is available for bulk orders.

Typical Electrical Performance*

Parameter	Frequency Range (GHz)	Min	Тур	Мах
Passband Insertion Loss (dB)	29 - 30	-	2.5	3
Passband Return Loss (dB)	27.5 - 28.5	12	15	-
Rejection (dB)	DC - 28.05	50	55	-

*The specifications above are valid at ambient temperature. Insertion loss performance over -40°C to 85°C may vary by +/- 0.2 dB.





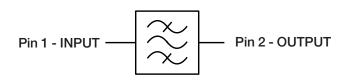
Additional Details

Special Handling / Storage Instructions		
Storage	IAW IPC-4553A	
ESD Sensitivity	None	
Ordering Information	PSF30B01S	
Standard Packaging	Tape and Reel	
Alternative Packaging Available	Waffle Pack	
Component Termination Finish	Immersion Gold	
Export Certifications	5A991.a	

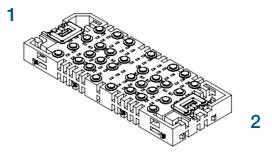
Absolute Maximum Ratings

Power	TBD
Operating Temp	-55°C to 125°C
Solder Reflow	260°C max. for 10 seconds, 3 cycles
Epoxy Attach	150°C max. for 90 minutes

Simplified Block Diagram



Component View



PCB Layout

Mechanical Drawing

