

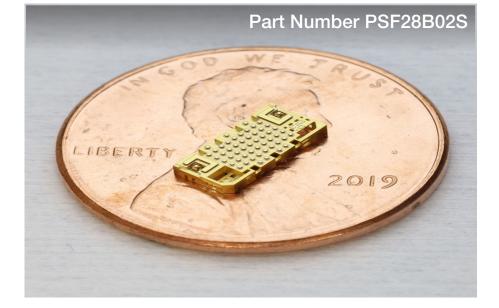


Features and Benefits

- Small Size and Lightweight
- Near Ideal Performance
 -Low insertion loss and good rejection
- Precision -Low part-to-part variation
- Ease of Assembly -Standard SMT processes

Applications

• Satellite Communications



27.5-30 GHz Bandpass Filter

Surface mount Ka band filter in a miniature form factor.

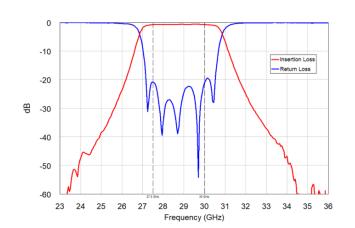
Description

Nuvotronics PolyStrata® Technology provides high performance filtering in a small form factor (7.44mm x 3.49mm x 1.1mm). The PSF28B02S surface-mount interdigital filter provides low insertion loss and high rejection. Typical insertion loss performance is < 1 dB across the 27.5 - 30 GHz band. This part is ideal for space or ground 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
Insertion Loss (dB)		-	1	1.4
Return Loss (dB)	27.5 - 30	12	15	-
Rejection (dB)	15.7 - 20.2	-	75	-
	25.25	31	34	-
	33.5	38	41	-

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





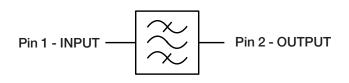
Additional Details

Special Handling / Storage Instructions		
Storage	IAW IPC-4553A	
ESD Sensitivity	None	
Ordering Information	PSF28B02S	
Standard Packaging	Tape and Reel	
Alternative Packaging Available	Waffle Pack	
Component Termination Finish	Immersion Silver, 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

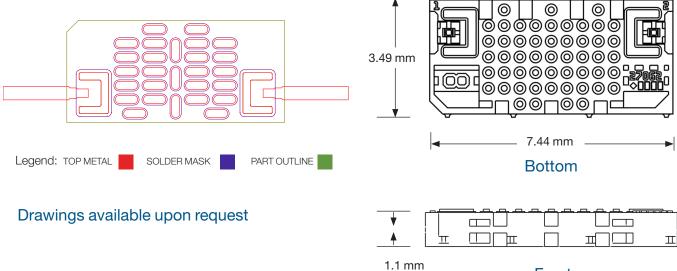
Simplified Block Diagram



Component View

PCB Layout

Mechanical Drawing



Front