



Features and Benefits

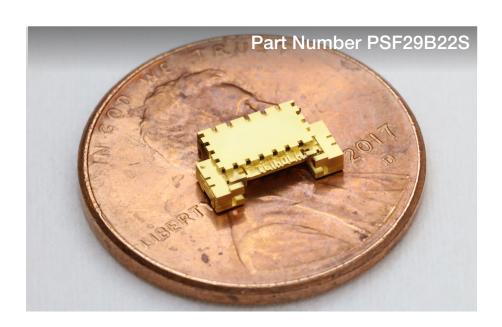
- Small Size and Lightweight
- Near Ideal Performance

 Low insertion loss and good rejection
- Precision
 -Low part-to-part variation
- Ease of Assembly

 Standard SMT Processes
- Self-shielded

Applications

- EW
- Radar
- SIGINT



18-40 GHz Bandpass Filter

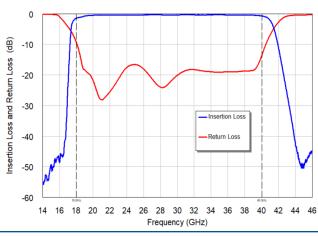
Surface mount wideband filter in a minature form factor.

Description

Nuvotronics PolyStrata® Technology provides high performance filtering in a small form factor (7.58mm x 4.60mm x 1.60mm). The PSF29B22S surface-mount interdigital filter provides low insertion loss and high rejection. Typical insertion loss performance is < 0.5 dB across the 18 - 40 GHz band. This part is ideal for space or ground applications. This wideband 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	Max
Insertion Loss (dB)	18 - 40	-	0.4	1.8
Return Loss (dB)	10 - 40	13	20	-
Rejection (dB)	DC - 16.4	39	46	-
	46	29	50	-





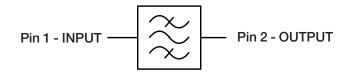
Additional Details

Special Handling / Storage Instructions		
Storage	IAW IPC-4553A	
EDS Sensitivity	None	
Ordering Information	PSF29B22S	
Standard Packaging	Waffle Pack	
Alternative Packaging Available	Tape and Reel	
Component Termination Finish	Immersion Silver, Immersion Gold	
Export Certifications	TBA	

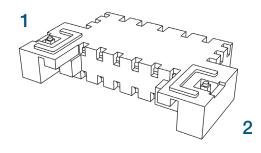
Absolute Maximum Ratings

Power	Minimum 2W CW	
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	

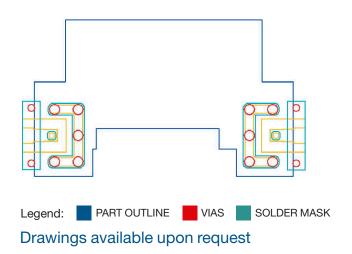
Simplified Block Diagram



Component View



PCB Layout



Mechanical Drawing

