

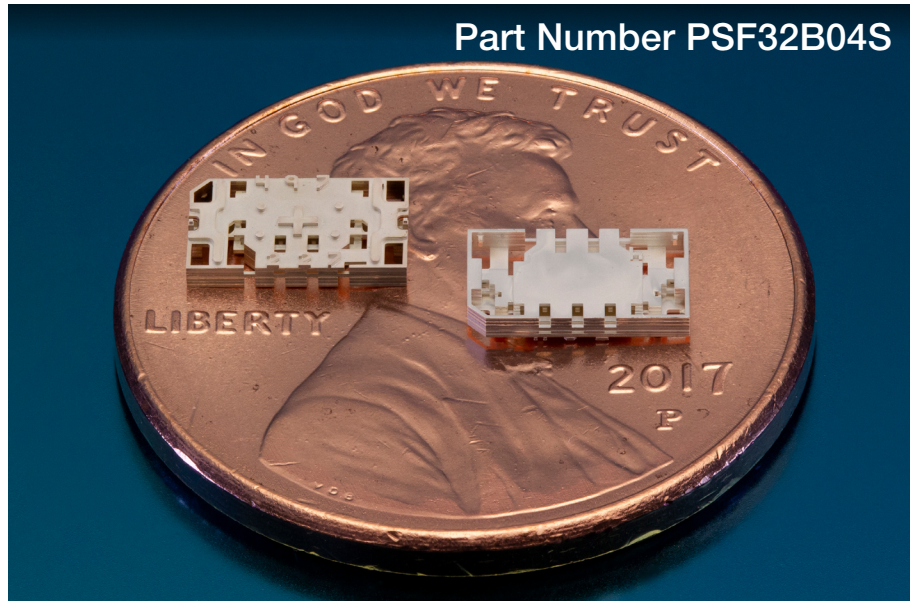


Features and Benefits

- **Compact Size and Weight**
- **Near Ideal Performance**
-Higher rejection and flatter passbands
- **Precision**
-Low part-to-part variation
- **Ease of Assembly**
-Standard SMT processes
- **Lower System BOM Cost**
-Eliminate extra gain stages and signal cleanup

Applications

- **Metrology**
- **RF Telemetry**
- **Meterology**
- **Instrumentation**
- **5G Backhaul**
- **Satellite Communications**



Ka Band Bandpass Filter

Surface mount millimeter-wave bandpass filter with unrivaled rejection, and flatness – in a miniature form factor.

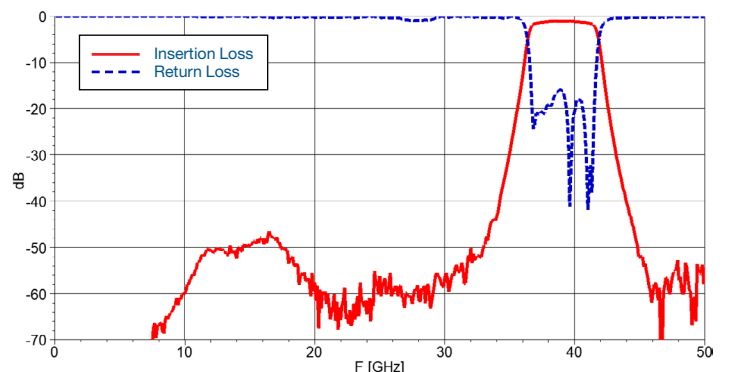
Description

Nuvotronics PolyStrata® Technology delivers performance and precision for your front-end systems. This bandpass filter is a surface-mount interdigital filter with unparalleled flatness and high frequency performance.

This PSF32B04S part has a passband of 30 GHz – 34 GHz with a characteristic impedance of 50 Ω. The high power, low loss performance of this part is ideal for space or ground applications. This part is compliant with RoHS standards. Tape and reel packaging is available for bulk orders.

Typical Electrical Performance

Parameter	Value
Insertion Loss, 30 GHz to 34 GHz	< 2 dB
Return Loss, 30 GHz to 34 GHz	> 12 dB
Rejection at 26 GHz	> 30 dB
Rejection at 38 GHz	> 30 dB



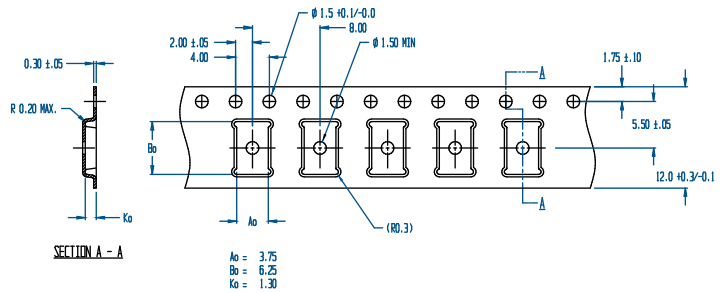
Absolute Maximum Ratings

Power	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

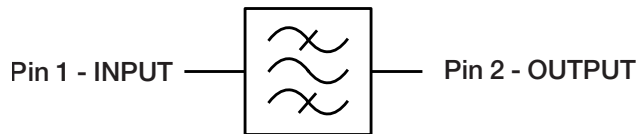
Additional Details

Special Handling / Storage Instructions	
Storage	IAW IPC-4553A
ESD Sensitivity	None
Moisture Sensitivity	MSL1
Ordering Information	PSF32B04STR (Tape and Reel)
Standard Packaging	Tape and Reel Conforms to EIA-481-E
Component Termination Finish	Immersion Silver
Certifications	RoHS Compliant
Export Classification	EAR99

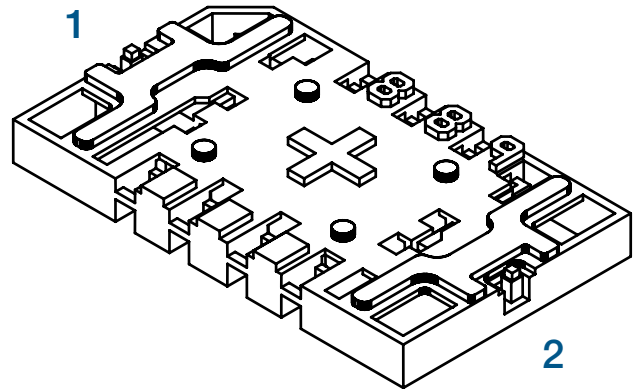
Tape and Reel



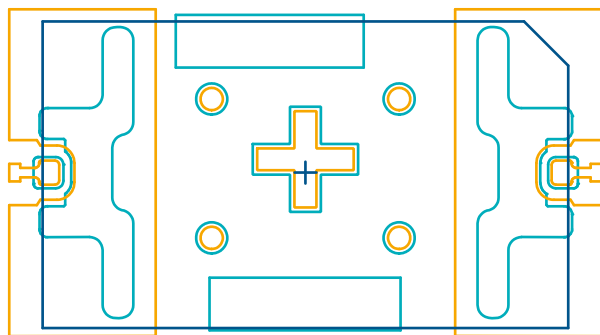
Simplified Block Diagram



Component View



PCB Layout



Legend: TOP METAL ■ SOLDER MASK ■ PART OUTLINE ■

Drawings available upon request

Mechanical Drawing

