

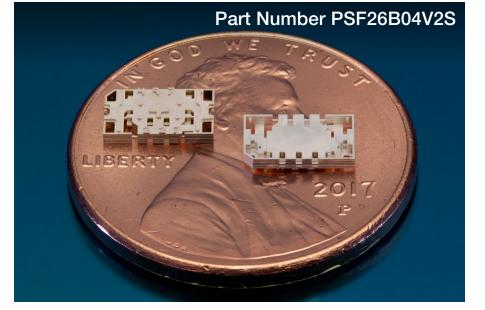


Features and Benefits

- Compact Size and Weight -Greater than 10X reduction over traditional technologies
- 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



K Band Bandpass Filter

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

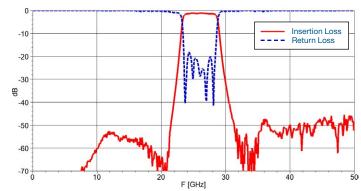
Description

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 PSF26B04V2S part has a passband of 24 GHz – 28 GHz with a characteristic impedance of 50 Ω . The 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, 24 GHz to 28 GHz	1.3 dB
Return Loss, 24 GHz to 28 GHz	20 dB
Rejection at 22.5 GHz	25 dB
Rejection at 29.5 GHz	21 dB
Rejection at 20 GHz	65 dB
Rejection at 32 GHz	60 dB



Part Name PSF26B04V2S



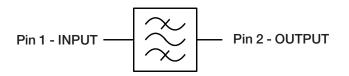
Absolute Maximum Ratings

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

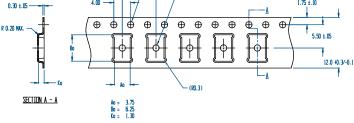
Additional Details

Special Handling / Storage Instructions	
Storage	IAW IPC-4553A
EDS Sensitivity	None
Moisture Sensitivity	MSL3
Ordering Information	1012887
Standard Packaging	Tape and Reel Conforms to EIA-481-E
Alternative Packaging Available	Gel-coated Substrate Carrier Waffle pack
Component Termination Finish	Immersion Silver
Certifications	RoHS Compliant

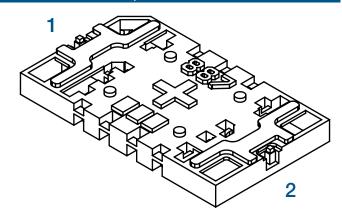
Simplified Block Diagram



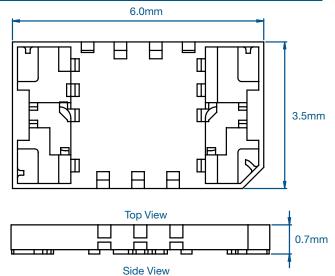
Tape and Reel



Component View



Mechanical Drawing



PCB Layout

