

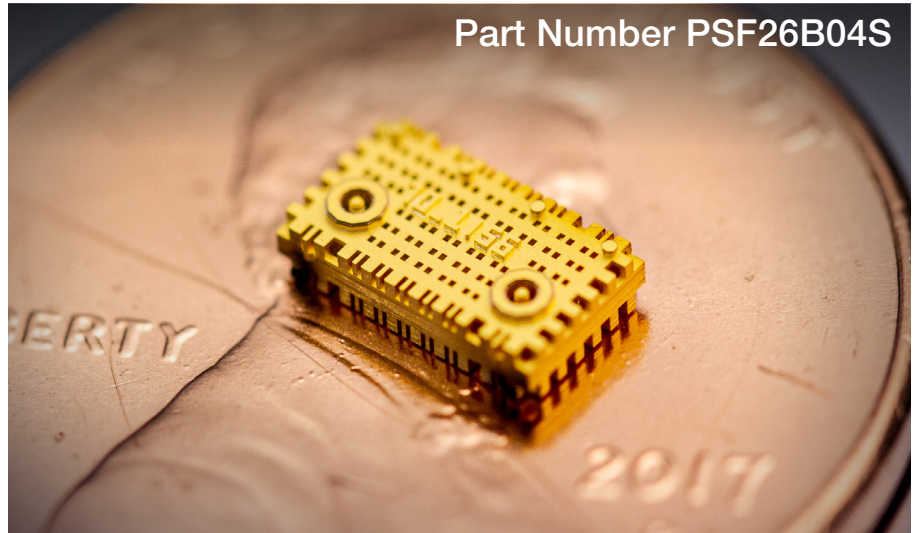


### Features and Benefits

- **Compact Size and Weight**  
-Use in 5G MIMO arrays
- **Near Ideal Performance**  
-Sharp band edges provide maximum useable passband with very low loss
- **Precision**  
-Low part-to-part variation
- **Ease of Assembly**  
-Standard SMT processes

### Applications

- 5G Band n258 Access Network
- RF Telemetry
- Instrumentation



## 5G Band n258 Filter - Low Loss

**Millimeter wave 5G filter for band n258. Low loss and small, surface mount form factor.**

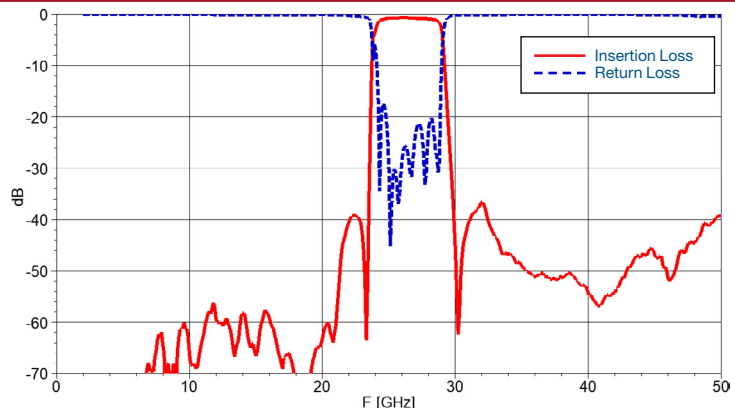
### Description

Nuvotronics PolyStrata® Technology provides high performance in a small form factor. Low loss and steep filter shape provide maximum useable passband for 5G access networks. The low profile and surface mountability enable manufacturability for compact phased array architectures.

This PSF26B04S part has a passband of 24.25 GHz – 28.3 GHz with a characteristic impedance of 50 Ω for operation in the n258 band. The steep filtering skirts allow for optimal utilization of frequency operation. This part is compliant with RoHS standards. Tape and reel packaging is available for bulk orders.

### Typical Electrical Performance

Parameter	Value
Insertion Loss, 24.25 GHz to 28.3 GHz	1 dB
Return Loss, 24.25 GHz to 28.3 GHz	17 dB
Rejection at 0 to 20.5 GHz	55 dB
Rejection at 20.5 to 23.5 GHz	37 dB
Rejection at 31 to 34 GHz	35 dB
Rejection at 34 to 48 GHz	45 dB



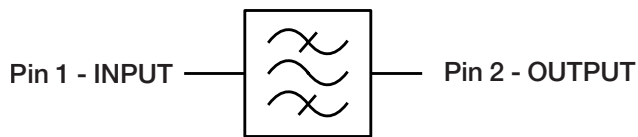
### Additional Details

Special Handling / Storage Instructions	
Storage	IAW IPC-4553A
EDS Sensitivity	None
Moisture Sensitivity	MSL3
Ordering Information	PSF26B04S
Standard Packaging	Tape and Reel Conforms to EIA-481 latest revision
Alternative Packaging Available	Gel-coated Substrate Carrier Waffle pack
Component Termination Finish	Immersion Silver Immersion Gold

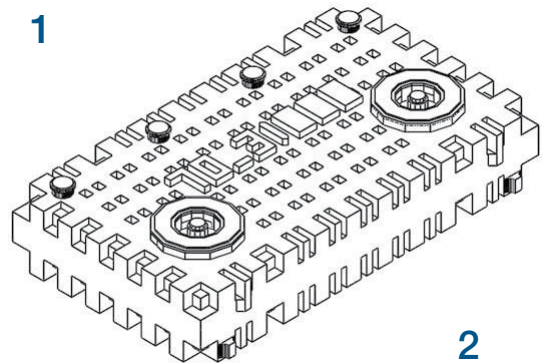
### Absolute Maximum Ratings

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

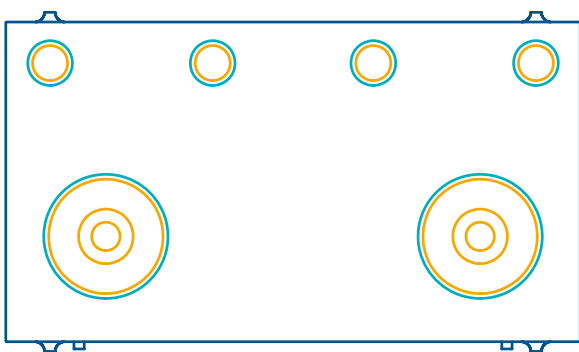
### Simplified Block Diagram



### Component View



### PCB Layout



Legend: TOP METAL ■ SOLDER MASK ■ PART OUTLINE ■

Drawings available upon request

### Mechanical Drawing

