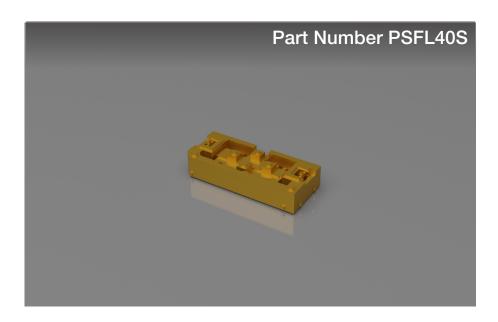




Features and Benefits

- Small Size and Lightweight -Weight: 0.19g
- Near Ideal Performance
 - -Low insertion loss and high rejection
- Precision
- -Low part-to-part variation
- Ease of Assembly
 - -Standard SMT processes



Applications

- Satellite Communications
- Defense
- Test & Measurement
- Telecom

40 GHz Lowpass Filter

Ka-Band, Surface-Mount Filter in a miniature size.

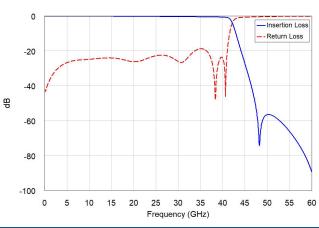
Description

Nuvotronics PolyStrata® Technology offers a high performance filter in a small form factor (7.8 \times 3.3mm) with an insertion loss of <1.5dB below 40GHz and > 35dB rejection above 45GHz. This device is ideal for commercial satcom, defense and test & measurement for both Rx and Tx applications.

Typical Electrical Performance*

Parameter	Frequency Range (GHz)	Min	Тур	Max
Passband Insertion Loss (dB)	DC - 40	-	0.75	1
Passband Return Loss (dB)	DC - 40	15	18	-
Stopband (dB)	46 - 60	35	37	-

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





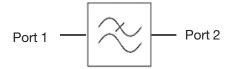
Additional Details

Special Handling / Storage Instructions		
Storage	IAW IPC-4553A	
ESD Sensitivity	None	
Ordering Information	PSFL40S	
Standard Packaging	Gel Pak	
Alternative Packaging Available	Tape and Reel	
Component Termination Finish	Immersion Gold	
Export Certifications	TBD	

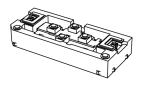
Absolute Maximum Ratings

Power	5W	
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



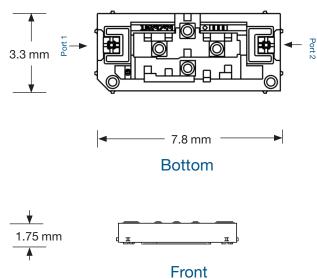
PCB Layout



Drawings available upon request

Legend: TOP METAL SOLDER MASK

Mechanical Drawing



PART OUTLINE