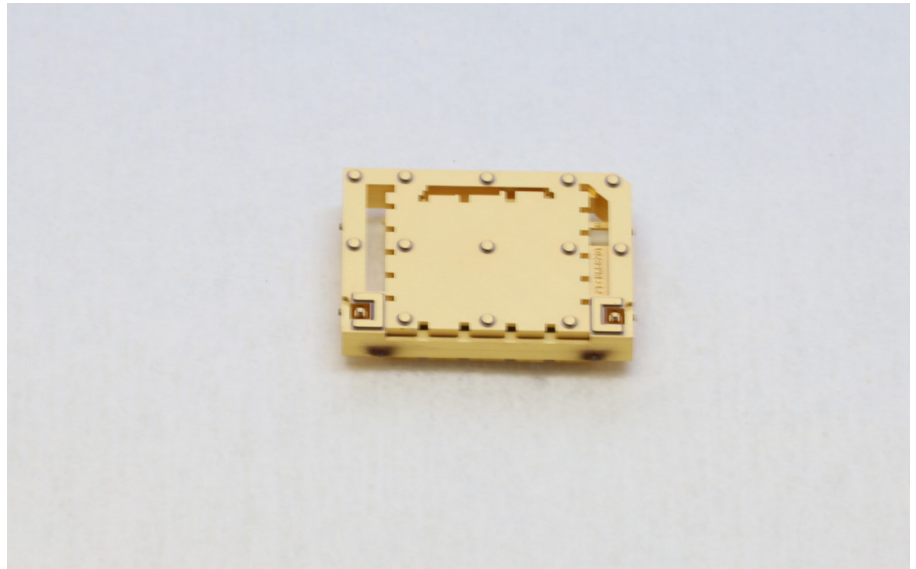


## Features and Benefits

- **Small Size and Lightweight**  
-Weight: 0.51g
- **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**



# 6 GHz Lowpass Filter

## C-Band, Surface-Mount Filter in a miniature size.

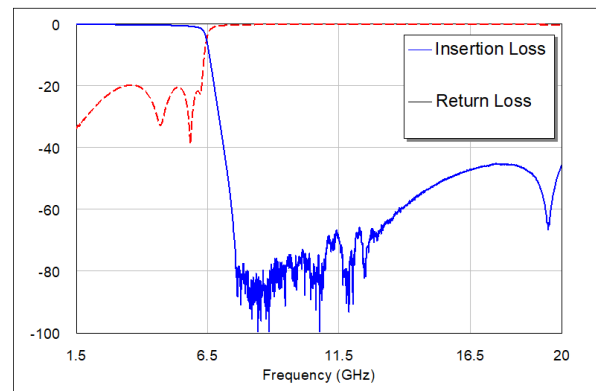
### Description

Nuvotronics PolyStrata® Technology offers a high performance filter in a small form factor (7.2 x 9.6mm) with an insertion loss of <1.5dB below 6GHz and > 37dB rejection above 7GHz. 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	Typ	Max
Passband Insertion Loss (dB)	DC - 6	-	1	1.6
Passband Return Loss (dB)	DC - 6	15	17	-
Stopband (dB)	7 - 18	30	35	-

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



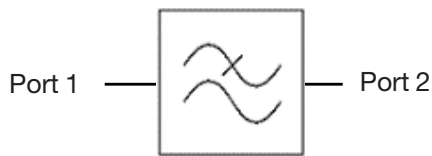
### Additional Details

Special Handling / Storage Instructions	
Storage	IAW IPC-4553A
ESD Sensitivity	None
Ordering Information	PSFL06S
Standard Packaging	Gel Pak
Alternative Packaging Available	Tape and Reel
Component Termination Finish	Immersion Gold

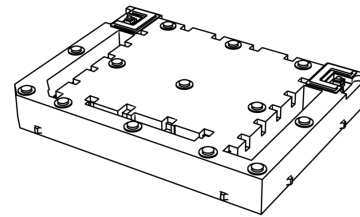
### Absolute Maximum Ratings

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

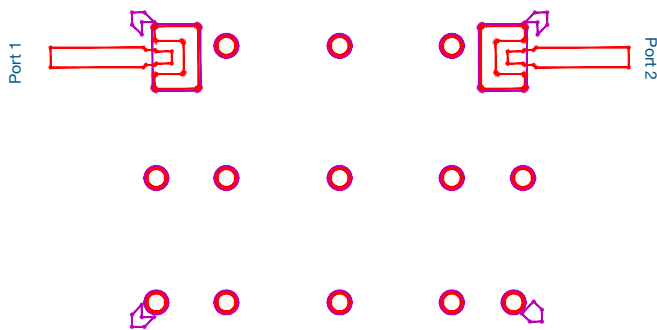
### Simplified Block Diagram



### Component View



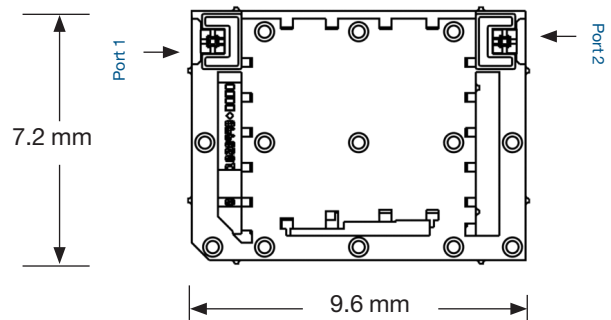
### PCB Layout



Legend: TOP METAL ■ SOLDER MASK ■ PART OUTLINE ■

Drawings available upon request

### Mechanical Drawing



Bottom



Front