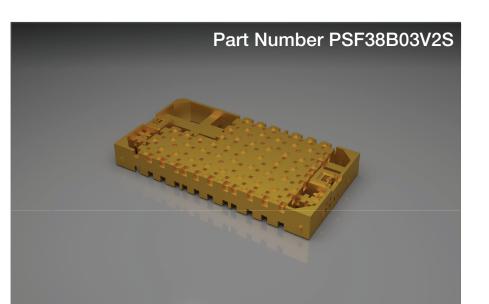




- Small Size and Lightweight
- Near Ideal Performance
 -Ultra low insertion loss and good
 rejection
- Precision -Low part-to-part variation
- Ease of Assembly -Standard SMT processes
- Characteristic Impedance -50Ω

Applications

• Satellite Communications



NUVOTRONICS

37-40 GHz Bandpass Filter

Surface mount Q band filter in a miniature form factor.

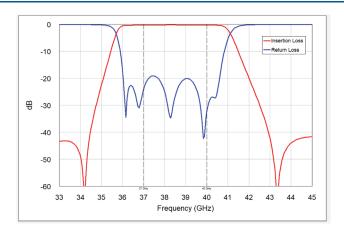
Description

Nuvotronics PolyStrata® Technology provides high performance filtering in a small form factor (14.22mm x 7.4mm x 1.5mm). The PSF38B03V2S surface-mount interdigital filter provides ultra low insertion loss and high rejection. Typical insertion loss performance is < 0.4 dB across the 37 - 40 GHz band. This part is ideal for space or ground applications. The filter is compliant with standard SMT assembly processes. Tape and reel packaging is available for bulk orders.

Typical Electrical Performance*

Parameter	Frequency Range (GHz)	Min	Тур	Max
Insertion Loss (dB)		-	0.4	0.6
Return Loss (dB)	37 - 40	12	15	-
Rejection (dB)	DC - 34	40	42	-
	45 - 50	40	41	-

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





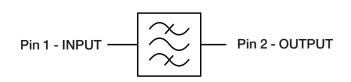
Additional Details

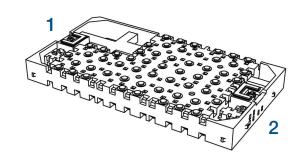
Special Handling / Storage Instructions		
Storage	IAW IPC-4553A	
ESD Sensitivity	None	
Ordering Information	PSF38B03V2S	
Standard Packaging	Tape and Reel	
Alternative Packaging Available	Waffle Pack	
Component Termination Finish	Immersion Silver, Immersion Gold	
Export Certifications	5A991.a	

Absolute Maximum Ratings

Power	TBD
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

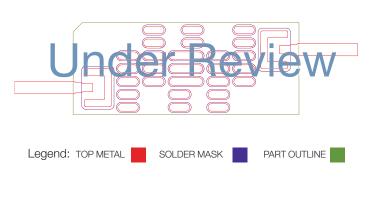
Simplified Block Diagram





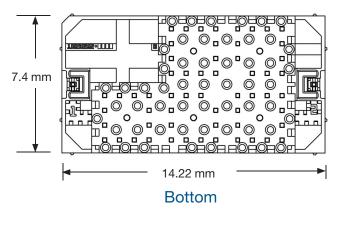
Component View

Mechanical Drawing



PCB Layout

Drawings available upon request





Front