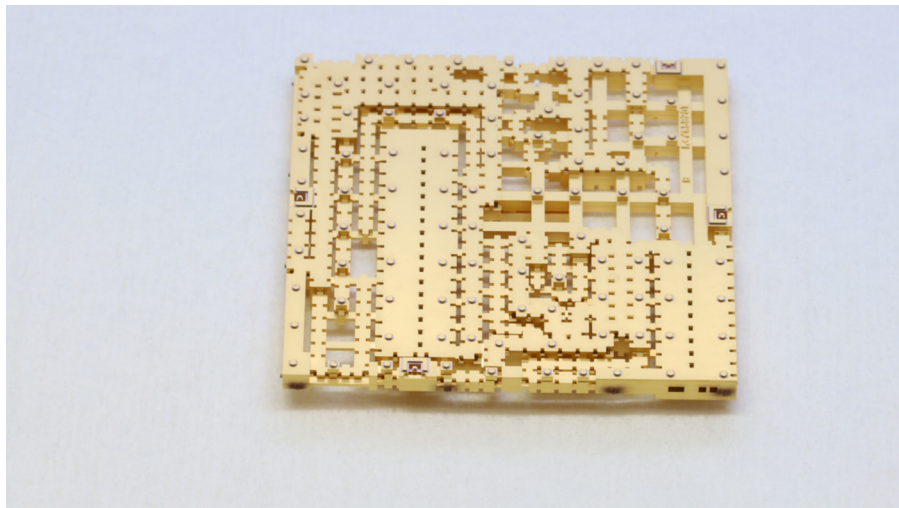


Features and Benefits

- **Small Size and Lightweight**
-Weight: 3.7g
- **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**



3-Channel Multiplexer

3-Channel Multiplexer in a SMT package and miniature size.

Description

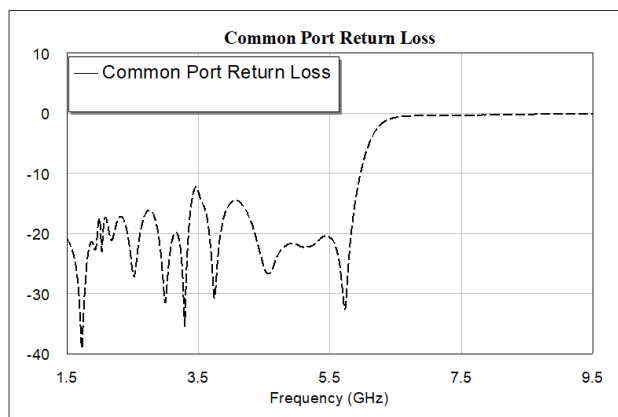
μMUX is a product family of multiplexers, low-pass filters and duplexers which can be deployed individually or cascaded together to address multiple-channel filter requirements for ultra-broadband receivers and transmitters. The μMUX family utilizes Polyrata® micro-miniature coax technology to offer superior filter performance in a small package footprint which is surface-mountable.

The PSM0206B3S is a Triplexer covering DC-2 GHz, 2-3.5 and 3.5-6 GHz all in a surface mount package at a size of 25.7 x 26.5mm.

Please contact Nuvotronics for a complete summary of capabilities and options.

Typical Electrical Performance*

Common Port (Port 1)				
Parameter	Frequency Range (GHz)	Min	Typ	Max
Return Loss (dB)	DC - 5.7	10	13	-



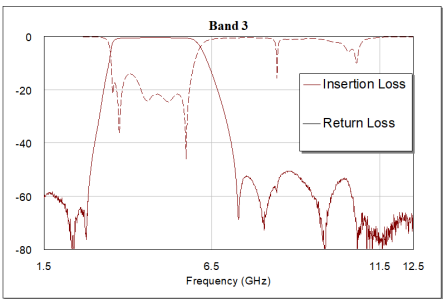
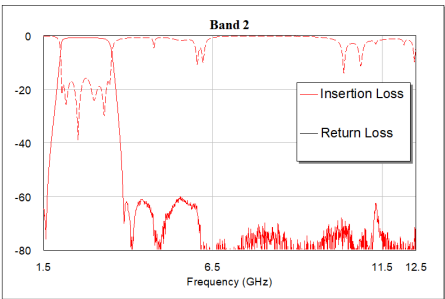
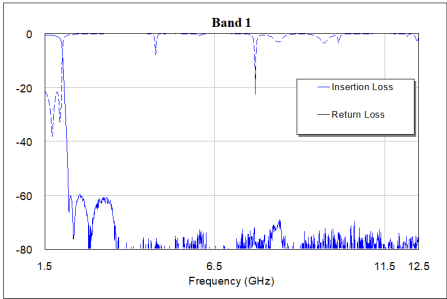
Typical Electrical Performance*

Band 1 (Port 2)				
Parameter	Frequency Range (GHz)	Min	Typ	Max
Passband Insertion Loss (dB)	DC - 1.9	-	1.6	1.95
Passband Return Loss (dB)	DC - 1.9	13	15	-
Stopband (dB)	2.2 - 12.0	55	57	-

Band 2 (Port 3)				
Parameter	Frequency Range (GHz)	Min	Typ	Max
Passband Insertion Loss (dB)	2.1 - 3.33	-	1.8	2.1
Passband Return Loss (dB)	2.1 - 3.33	13	15	-
Stopband (dB)	DC - 1.75	30	35	-
Stopband (dB)	4.0 - 12.0	55	60	-

Band 3 (Port 4)				
Parameter	Frequency Range (GHz)	Min	Typ	Max
Passband Insertion Loss (dB)	3.68 - 5.9	-	1.2	1.5
Passband Return Loss (dB)	3.68 - 5.9	10	12	-
Stopband (dB)	DC - 3.0	35	40	-
Stopband (dB)	7.0 - 12.0	30	37	-

Typical Performance



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

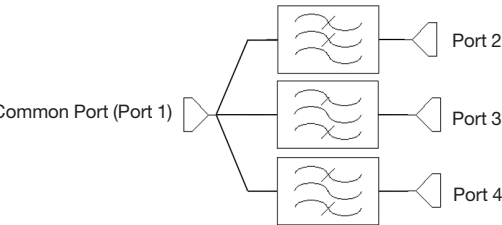
Additional Details

Special Handling / Storage Instructions	
Storage	IAW IPC-4553A
ESD Sensitivity	None
Ordering Information	PSM0206B3S
Standard Packaging	Gel Pak
Alternative Packaging Available	Tape and Reel
Component Termination Finish	Immersion Gold

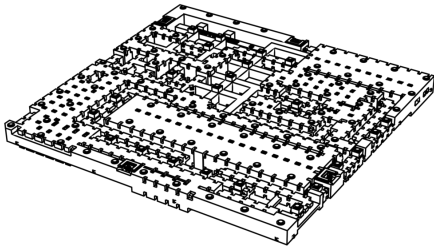
Absolute Maximum Ratings

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

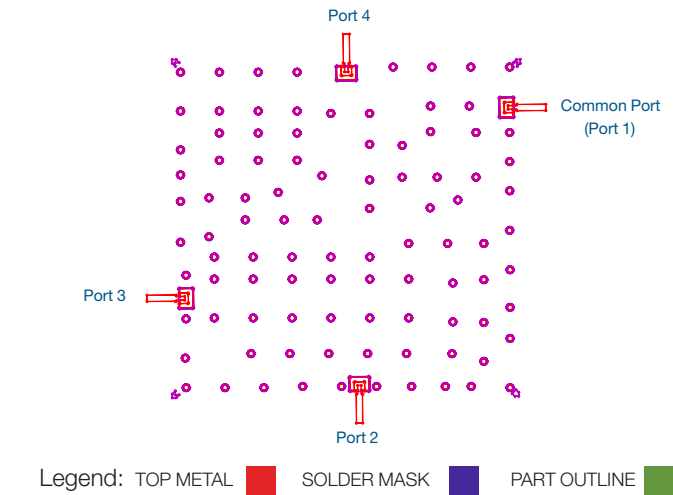
Simplified Block Diagram



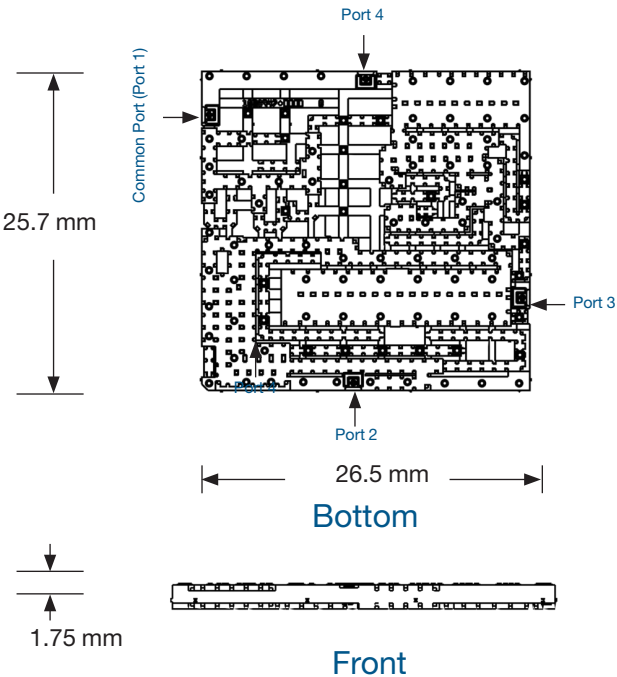
Component View



PCB Layout



Mechanical Drawing



Drawings available upon request