

Typical Applications

- Preselector
- Transmitter/Receiver Systems
- Avionics
- Military Applications
- EW Radar Systems

Key Features

- 7 Channels
- Fast Switching Speed < 500 nS Typical
- Multi-Octave Frequency Range
- Can be Screened to Meet MIL-STD-202, 810
- 50 dBc Rejection Levels

Electrical Specifications

Parameter	Min.	Typ.	Max.	Units	Notes
Frequency Range	5.95	-	20.25	GHz	
Insertion Loss	-	6.5	8.0	dB	Maximum over passband
Input / Output VSWR	-	1.8:1	2.0:1	-	Over passband
Passband Flatness	-	1.25	1.5	dB	
Switching Speed	-	400	500	ns	50% TTL to 90%/10% RF
Supply Voltage					
+5.0 Volt Supply	4.5	5.0	5.5	Vdc	
-5.0 Volt Supply	-4.5	-5.0	-5.5		
Supply Current					
+5.0 Volt Supply		250	300	mA	
-5.0 Volt Supply		80	100		

Passband Specifications

Channel	Lower Band-Edge (GHz)	Upper Band-Edge (GHz)	Center Frequency (GHz)	Bandwidth (GHz)
1	5.95	8.05	7.00	2.10
2	7.55	10.45	9.00	2.90
3	9.95	12.45	11.20	2.50
4	11.95	15.15	13.55	3.20
5	14.65	16.75	15.70	2.10
6	16.25	18.35	17.30	2.10
7	17.85	20.25	19.05	2.40

Rejection Specifications

Channel	Low-Side 50 dBc Rejection	High-Side 50 dBc Rejection
1	0.5 to 5.35 (GHz)	10.0 to 20.25 (GHz)
2	0.5 to 6.90 (GHz)	11.0 to 20.25 (GHz)
3	0.5 to 9.2 (GHz)	13.2 to 20.25 (GHz)
4	0.5 to 11.1 (GHz)	15.75 to 20.25 (GHz)
5	0.5 to 14.15 (GHz)	17.25 to 20.25 (GHz)
6	0.5 to 15.5 (GHz)	19.0 to 20.25 (GHz)
7	0.5 to 17.05 (GHz)	21.0 to 22.0 (GHz)

TTL Selection Code

Channel	E3 (MSB)	E2	E1 (LSB)
1	0	0	1
2	0	1	0
3	0	1	1
4	1	0	0
5	1	0	1
6	1	1	0
7	1	1	1

Absolute Maximum Ratings

Supply Voltage	+5.0 Vdc -5.0 Vdc	+6.0 Vdc -6.0 Vdc
RF Input Power		+28 dBm
Storage Temperature		-55 to +85 °C
Operating Temperature		-45 to +85 °C
ESD Sensitivity		Class 1B



ELECTROSTATIC SENSITIVE DEVICE. OBSERVE PROPER HANDLING PRECAUTIONS

Outline Drawing (Shown with optional SMP connectors)

REVISIONS				
ECH#	REV.	DESCRIPTION	DATE	APPROVED
04-0293	-	RELEASED	7/18/06	AR
07-0299	A	REMOVED CTRL A, CTRL B, & CTRL C. ADDED LSB.	5/11/07	JFS

**COMPUTER ASSISTED DRAWING
GENERATED USING SOLIDWORKS 2006**

<p>CUSTOMER APPROVAL: QUOTE/P.O.# _____</p> <p>NAME: _____ DATE: _____</p> <p>SIGNATURE: _____</p>	<p>PROPRIETARY AND CONFIDENTIAL</p> <p>THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF SPECTRUM SEI MICROWAVE, INC. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF SPECTRUM SEI MICROWAVE, INC. IS PROHIBITED.</p>	<p>DIMENSIONS ARE IN INCHES</p> <p>TOLERANCES:</p> <p>FRACTIONAL ±</p> <p>ANGULAR: MACH ± BEHD ±</p> <p>TWO PLACE DECIMAL ± 0.02</p> <p>THREE PLACE DECIMAL ± 0.005</p> <p>MATERIAL N/A</p> <p>FINISH SILVER PLATE</p> <p>APPLICATION DO NOT SCALE DRAWING</p>	<p>APPROVALS</p> <table border="1"> <tr><th>NAME</th><th>DATE</th></tr> <tr><td>DRAWN: SH</td><td>7/18/06</td></tr> <tr><td>CHECKED: LTD</td><td>7/18/06</td></tr> <tr><td>DIR APPR.</td><td></td></tr> <tr><td>ENG APPR. AR</td><td>7/18/06</td></tr> </table> <p>G.A.</p> <p>COMMENTS:</p> <p>DO NOT SCALE DRAWING</p> <p>SCALE: 7/8</p>	NAME	DATE	DRAWN: SH	7/18/06	CHECKED: LTD	7/18/06	DIR APPR.		ENG APPR. AR	7/18/06	<p>SPECTRUM SEI MICROWAVE</p> <p>38166 OLD STAGE RD DELMAR DE 19940 FSCM# 67021</p> <p>OUTLINE FOR 4.20 X 3.40 X .50 FILTER BANK, SMP</p> <p>SIZE DWG. NO. A010-2374</p> <p>SHEET 1 OF 1</p>
NAME	DATE													
DRAWN: SH	7/18/06													
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Specifications are subject to change without notice