



USB & ETHERNET CONTROLLED

RF SP6T Switch Matrix RC-1SP6T-26

50Ω DC to 26.5 GHz SMA-Female

THE BIG DEAL

- Mechanical SP6T switch
- Excellent performance to 26.5 GHz
- High reliability, 2 million switch cycles
- 5W power rating (cold switching)

APPLICATIONS

- 5G node / device testing
- Automated test equipment
- Fail-safe / redundancy switching



CASE STYLE: PF2909

[DOWNLOAD](#) SOFTWARE PACKAGE

RoHS Compliant

See our website for RoHS Compliance methodologies and qualifications

PRODUCT OVERVIEW

Mini-Circuits' RC-1SP6T-26 is an electro-mechanical SP6T switch operating over an extremely wide bandwidth, from DC to 26.5 GHz with high isolation and low insertion loss. The absorptive switch is of a failsafe and break-before-make-configuration, with a lifetime of 2 million cycles, when used within the noted specifications.

The switch box is constructed in a compact, rugged metal case (5.5 x 6.0 x 2.75") with 7 SMA (f) RF connectors on the front panel. The switch is controlled via USB or Ethernet, allowing control directly from a PC, or remotely over a network. Full software support is provided, including our user-friendly GUI application for Windows and a full API with programming instructions for Windows and Linux environments (both 32-bit and 64-bit systems).

KEY FEATURES

Feature	Advantages
Mechanical SP6T switch	Mechanical absorptive switches provide high reliability, repeatable high performance and internal terminations of input signals on the disconnected paths
Operation from DC to 26.5 GHz	Supports a wide range of RF test and signal routing applications, including 2G, 3G, 4G and 5G, with a single device
Break-before-make configuration	Prevents a momentary connection of the old and new signal paths, reducing the inconsistent transient effects that could otherwise be observed during switching
USB & Ethernet control	USB HID and Ethernet (HTTP / Telnet) interfaces provide easy compatibility with a wide range of software setups and programming environments
Full software support	User friendly Windows GUI (graphical user interface) allows manual control straight out of the box, while the comprehensive API (application programming interface) with examples and instructions allows easy automation in most programming environments

REV. B
ECO-028391
RC-1SP6T-26
MCL NY
260202





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ELECTRICAL SPECIFICATIONS AT +25°C

Parameter	Conditions	Min.	Typ.	Max.	Units
Frequency Range		DC		26.5	GHz
Insertion Loss	DC - 8 GHz		0.15	0.30	dB
	8 - 18 GHz		0.30	0.50	
	18 - 26.5 GHz		0.45	0.70	
Isolation ¹ (Inactive Paths)	DC - 8 GHz	70	90		dB
	8 - 18 GHz	60	80		
	18 - 26.5 GHz	55	70		
Return Loss ²	DC - 8 GHz		20		dB
	8 - 18 GHz		16		
	18 - 26.5 GHz		14		
Switching Time			25		ms
RF Input Power	Cold switching, DC - 8 GHz			20	W
	Cold switching, 8 - 18 GHz			10	
	Cold switching, 18 - 26.5 GHz			5	
	Hot switching ³			0.1	
	Into internal termination ⁴			1	
Switch Lifetime			2		million cycles

1. Isolation measured between Com and any disconnected port. Example: Isolation for Com to 1 is the leakage measured at port 1 from a signal input at Com when the active switch path is set to Com to 2

2. Return loss into Com when active or ports 1-6 in any state; Com is reflective when disconnected

3. Hot switching power above this level will degrade the switch lifetime

4. Maximum power into any internal termination is 1W per port, 3W total per switch

ABSOLUTE MAXIMUM RATINGS

Parameters	Ratings
Operating Temperature	0°C to 40°C
Storage Temperature	-15°C to 85°C
Supply Voltage	26V





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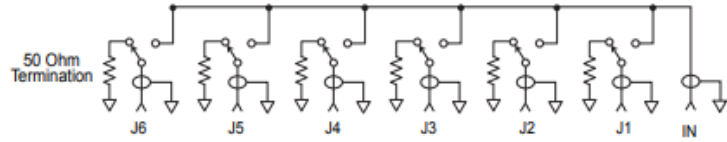
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SWITCHING CONFIGURATION:

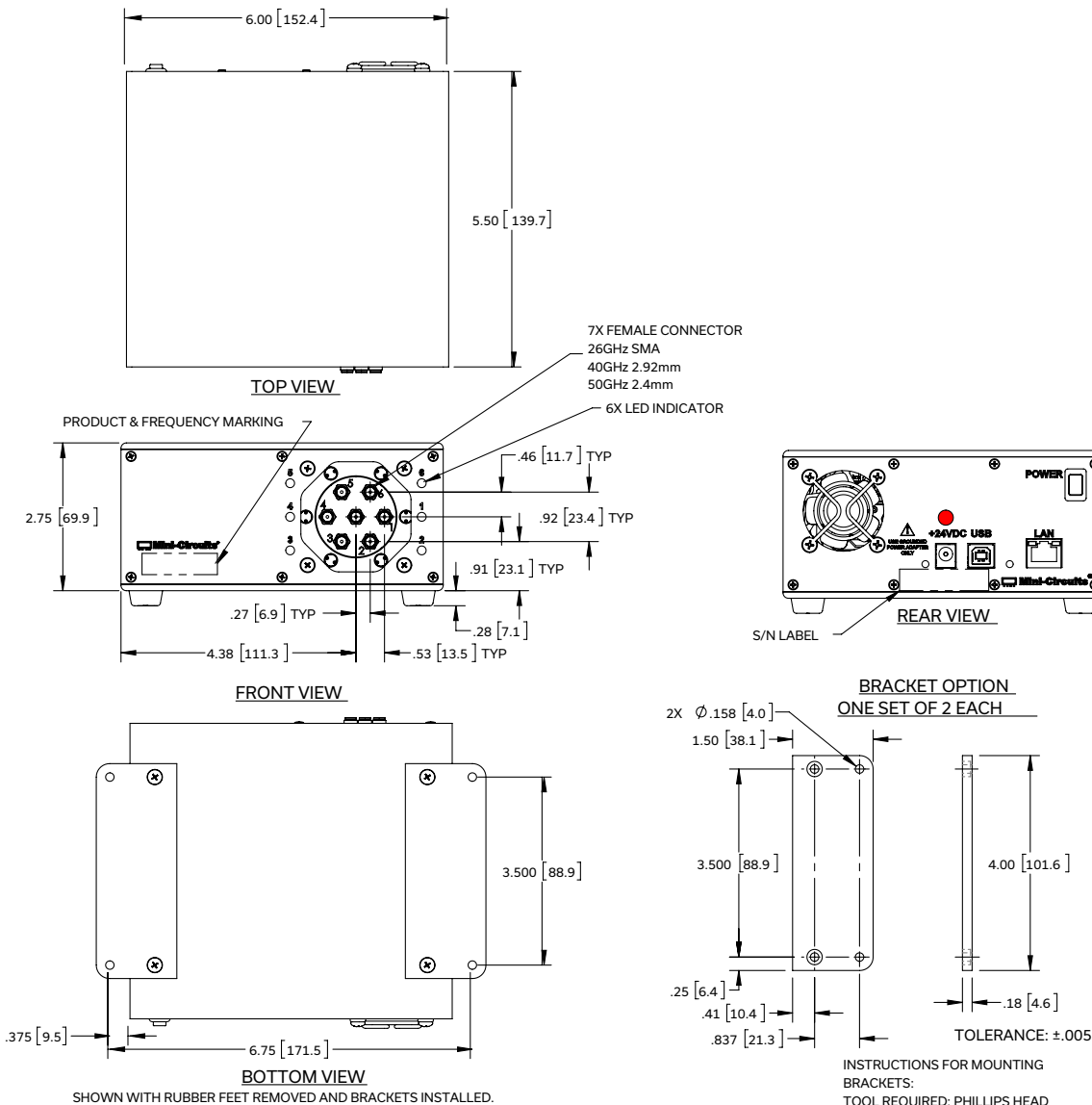
- Normally open (all port disconnected)
- Absorptive (internal terminations on ports J1-J6)



CONNECTIONS

Port Name	Connector Type
RF Switch (Com, 1, 2, 3, 4, 5 & 6)	SMA female
USB	USB type-B
Ethernet / LAN	RJ45
24V _{DC} Input	2.1mm center positive DC socket

OUTLINE DRAWING (PF2909)



Weight: 1110 grams.

Dimensions are in inches [mm]. Tolerances: 2 Pl.± .01 inch; 3 Pl.± .005 inch.

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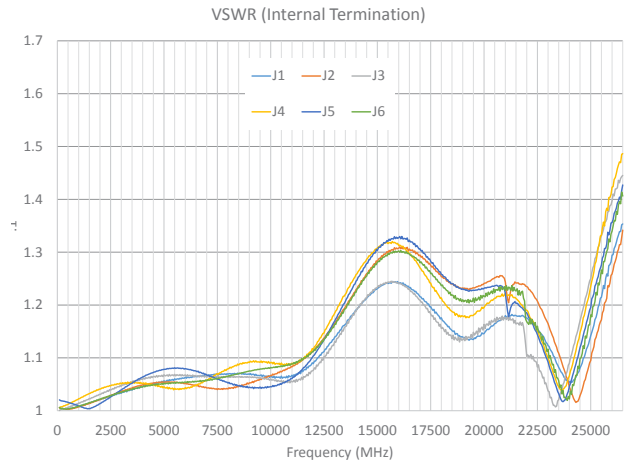
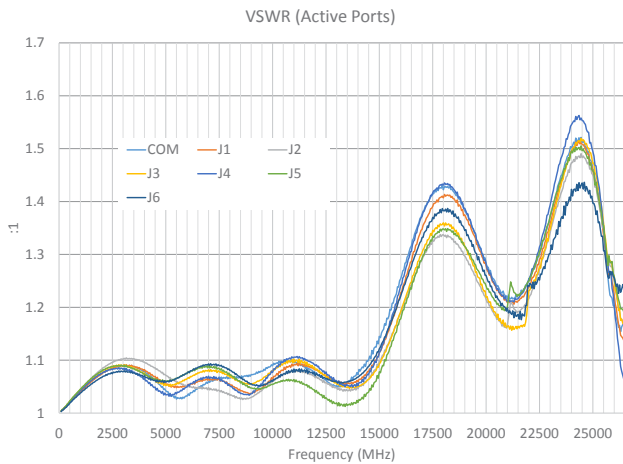
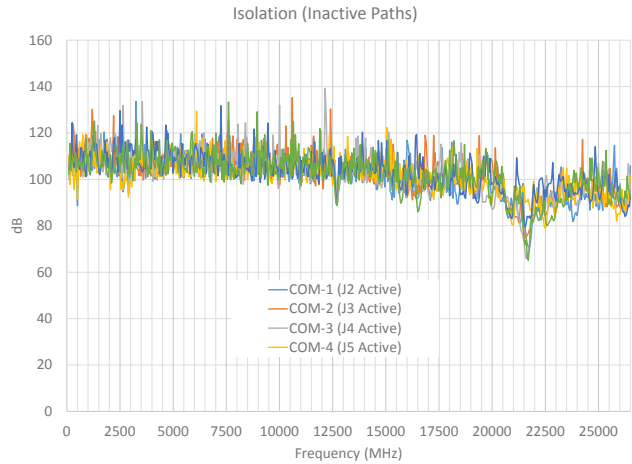
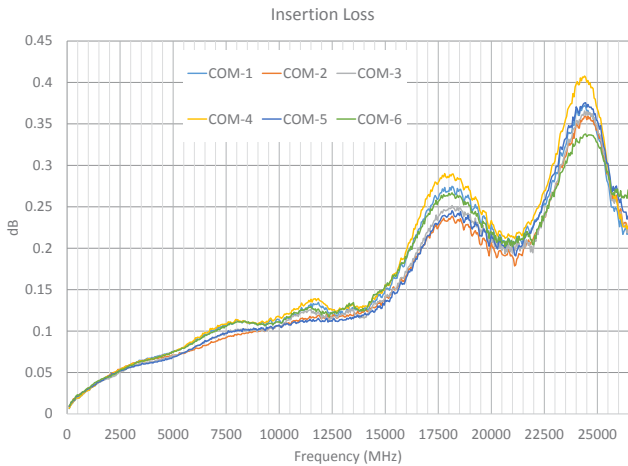
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TYPICAL PERFORMANCE GRAPHS





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RF SP6T Switch Matrix **RC-1SP6T-26**

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50Ω DC to 26.5 GHz SMA-Female

SOFTWARE SPECIFICATIONS

SOFTWARE & DOCUMENTATION DOWNLOAD:

- Mini-Circuits' full software and support package including user guide, Windows GUI, DLL files, programming manual and examples can be downloaded free of charge from: <https://www.minicircuits.com/softwaredownload/rfswitchcontroller.html>
- Please contact testsolutions@minicircuits.com for support

MINIMUM SYSTEM REQUIREMENTS:

Parameter	Requirements	
Interface	USB HID & Ethernet (HTTP & Telnet)	
System Requirements	GUI	Windows 98 or later
	USB API DLL	Windows 98 or later and programming environment with ActiveX or .NET support
	USB Direct Programming	Linux, Windows 98 or later
	Ethernet	Windows, Linux or Mac computer with a network port and Ethernet TCP/IP support
Hardware	Pentium II or later with 256 MB RAM	

APPLICATION PROGRAMMING INTERFACE (API)

ETHERNET SUPPORT:

- Simple ASCII / SCPI command set for attenuator control
- Communication via HTTP or Telnet
- Supported by most common programming environment

USB SUPPORT (WINDOWS):

- ActiveX COM DLL file for creation of 32-bit programs
- .NET library DLL file for creation of 32 / 64-bit programs
- Supported by most common programming environments (refer to application note AN-49-001 for summary of supported environments)

USB SUPPORT (LINUX):

- Direct USB programming using a series of USB interrupt codes

Full programming instructions and examples available for a wide range of programming environments / languages.



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MAIN SOFTWARE CONTROL SCREEN: INDEPENDENT CONTROL OF ONE SP6T SWITCH

- Power handling is specified with RF applied to the COM port and output load connected to either 1,2,3,4,5 or 6 of the respective switch.
- When connecting a coaxial semi flex cable, tighten connectors alternately using an 8in/lb torque wrench to insure proper contact at each end.





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ORDERING INFORMATION

Please contact Mini-Circuits' Test Solutions department for price and availability: testsolutions@minicircuits.com

Model	Description
RC-1SP6T-26	USB & Ethernet controlled SP6T switch matrix

Included Accessories	Part No.	Description
	AC/DC-24-3W1	AC/DC 24V _{DC} Grounded Power Adaptor. Operating temperature: 0°C to +40°C, I _{Max} =2.5A
See Below	CBL-3W1-XX	AC Power Cord (Select one power cord from below with each Switch Matrix box)
	USB-CBL-AB-3+	2.7 ft (0.8 m) USB Cable: USB type A(Male) to USB type B(Male)

AC Power Cords ³	Part No.	Description
	CBL-3W1-US	Power Cord for United States
	CBL-3W1-EU	Power Cord for Europe
	CBL-3W1-UK	Power Cord for United Kingdom
	CBL-3W1-AU	Power Cord for Australia and China
	CBL-3W1-IL	Power Cord for Israel

3. If you need a Power cord for a country not listed please contact testsolutions@minicircuits.com

OPTIONAL ACCESSORIES

USB-CBL-AB-3+	2.7 ft (0.8 m) USB Cable: USB type A(Male) to USB type B(Male)
USB-CBL-AB-7+	6.8 ft (2.1 m) USB Cable: USB type A(Male) to USB type B(Male)
USB-CBL-AB-11+	11 ft (3.4 m) USB Cable: USB type A(Male) to USB type B(Male)
CBL-RJ45-MM-5+	5 ft (1.5 m) Ethernet cable: RJ45(Male) to RJ45(Male) Cat 5E cable
BKT-272-08+	Bracket (One set of 2 each)

NOTES

- A. Performance and quality attributes and conditions not expressly stated in this specification document are intended to be excluded and do not form a part of this specification document.
- B. Electrical specifications and performance data contained in this specification document are based on Mini-Circuit's applicable established test performance criteria and measurement instructions.
- C. The parts covered by this specification document are subject to Mini-Circuits standard limited warranty and terms and conditions (collectively, "Standard Terms"); Purchasers of this part are entitled to the rights and benefits contained therein. For a full statement of the standard terms and the exclusive rights and remedies thereunder, please visit Mini-Circuits' website at www.minicircuits.com/terms/viewterm.html



Typical Performance Data

FREQUENCY (MHz)	INSERTION LOSS (dB)						ISOLATION (Inactive Paths) (dB)					
	IN-J1	IN-J2	IN-J3	IN-J4	IN-J5	IN-J6	IN-J1 (J2 Active)	IN-J2 (J3 Active)	IN-J3 (J4 Active)	IN-J4 (J5 Active)	IN-J5 (J6 Active)	IN-J6 (J1 Active)
100	0.01	0.01	0.01	0.01	0.01	0.01	104.73	109.61	99.92	110.55	104.62	102.15
200	0.01	0.01	0.01	0.01	0.01	0.01	110.49	104.65	112.01	108.99	105.82	103.88
400	0.02	0.02	0.02	0.02	0.02	0.02	102.85	104.10	106.56	106.05	109.96	111.53
600	0.02	0.02	0.02	0.02	0.02	0.02	111.15	110.31	111.70	116.16	104.29	107.61
800	0.03	0.03	0.02	0.03	0.03	0.03	106.60	109.95	106.10	101.34	112.00	106.92
1000	0.03	0.03	0.03	0.03	0.03	0.03	113.28	106.98	114.39	103.55	109.55	110.73
1200	0.03	0.03	0.03	0.03	0.03	0.04	103.89	130.18	114.95	105.76	113.86	112.09
1400	0.04	0.04	0.04	0.04	0.04	0.04	110.22	106.79	111.39	102.76	115.02	108.69
1600	0.04	0.04	0.04	0.04	0.04	0.04	103.73	112.09	119.83	114.76	105.94	105.25
1800	0.04	0.04	0.04	0.04	0.04	0.04	113.13	111.40	111.83	116.91	116.78	111.03
2000	0.05	0.05	0.04	0.05	0.05	0.04	111.38	112.95	115.10	108.20	109.12	106.96
2200	0.05	0.05	0.04	0.05	0.05	0.05	103.92	127.41	112.68	103.23	116.29	104.57
2600	0.05	0.06	0.05	0.06	0.05	0.05	106.25	115.83	100.56	98.84	123.42	107.23
2800	0.06	0.06	0.06	0.06	0.05	0.06	103.20	107.42	103.06	99.72	112.22	112.11
3000	0.06	0.06	0.06	0.06	0.06	0.06	110.11	106.64	114.12	98.82	115.45	109.27
3200	0.06	0.06	0.06	0.06	0.06	0.06	99.60	109.01	108.31	99.72	110.96	109.01
3400	0.06	0.06	0.06	0.06	0.06	0.06	106.22	101.57	114.64	108.04	106.87	109.98
3600	0.06	0.06	0.06	0.06	0.06	0.06	109.49	99.68	110.60	106.35	103.98	110.17
3800	0.07	0.06	0.06	0.07	0.06	0.07	111.30	105.11	112.37	104.82	112.52	101.07
4000	0.07	0.07	0.06	0.07	0.06	0.07	105.20	113.15	113.64	102.55	120.62	116.41
4200	0.07	0.07	0.06	0.07	0.06	0.07	109.86	108.86	112.87	101.02	116.36	109.98
4400	0.07	0.07	0.07	0.07	0.06	0.07	104.45	101.91	105.31	108.45	106.56	101.51
4600	0.07	0.07	0.07	0.07	0.06	0.07	103.55	102.65	111.45	108.96	106.62	106.02
4800	0.07	0.07	0.07	0.07	0.07	0.07	108.81	108.47	115.16	103.80	112.46	109.39
5000	0.08	0.07	0.07	0.07	0.07	0.07	107.31	107.21	105.47	102.26	102.85	112.18
5200	0.08	0.07	0.07	0.08	0.07	0.08	113.88	108.80	106.99	106.78	110.55	108.56
5400	0.08	0.07	0.07	0.08	0.07	0.08	106.82	111.37	105.30	109.61	115.47	105.80
5600	0.08	0.07	0.07	0.08	0.07	0.08	112.54	107.54	103.50	111.99	109.55	104.52
5800	0.09	0.08	0.08	0.09	0.08	0.08	108.32	106.95	101.22	105.44	102.39	111.99
6000	0.09	0.08	0.08	0.09	0.08	0.09	114.07	104.99	119.56	116.06	113.19	101.22
6200	0.09	0.08	0.08	0.09	0.08	0.09	105.97	105.05	101.20	102.94	105.72	105.18
6400	0.10	0.08	0.09	0.10	0.09	0.09	108.42	108.95	106.97	116.81	111.14	100.81
6600	0.10	0.08	0.09	0.10	0.09	0.10	115.64	109.06	103.63	103.73	110.33	114.03
6800	0.10	0.09	0.09	0.10	0.09	0.10	110.15	107.59	98.56	108.89	108.88	108.77
7000	0.10	0.09	0.09	0.10	0.09	0.10	110.09	111.40	105.41	98.86	106.87	120.03
7200	0.10	0.09	0.09	0.11	0.09	0.10	119.16	105.54	103.48	112.70	105.81	111.76
7400	0.11	0.09	0.09	0.11	0.10	0.10	109.12	111.83	113.43	104.43	110.83	98.84
7600	0.11	0.09	0.10	0.11	0.10	0.11	125.41	111.23	105.88	112.05	101.64	133.35
7800	0.11	0.09	0.10	0.11	0.10	0.11	104.87	118.71	105.90	100.99	104.37	106.29
8000	0.11	0.10	0.10	0.11	0.10	0.11	101.01	117.20	108.73	100.74	101.57	103.68
8200	0.11	0.10	0.10	0.11	0.10	0.11	103.21	115.74	100.53	102.05	111.04	98.03
8400	0.11	0.10	0.10	0.11	0.10	0.11	104.90	111.66	124.37	103.28	105.28	107.15
8600	0.11	0.10	0.10	0.11	0.10	0.11	107.33	104.44	105.55	105.51	105.72	105.80
8800	0.11	0.10	0.10	0.11	0.10	0.11	99.41	117.44	120.35	111.55	121.71	111.29
9000	0.11	0.10	0.10	0.11	0.10	0.11	106.11	104.99	110.45	104.95	111.39	102.03
9200	0.11	0.10	0.10	0.11	0.10	0.11	105.20	110.99	106.58	109.27	105.70	112.71
9400	0.11	0.10	0.10	0.11	0.10	0.11	111.51	106.82	111.48	104.84	102.88	109.12
9600	0.11	0.11	0.10	0.12	0.11	0.11	104.74	99.23	104.41	98.98	102.20	101.69
9800	0.11	0.10	0.10	0.11	0.11	0.11	106.36	111.58	107.20	107.07	112.48	102.26
10000	0.11	0.11	0.11	0.12	0.11	0.11	102.38	97.35	132.04	105.23	106.33	104.36
12000	0.13	0.11	0.11	0.14	0.11	0.12	106.77	102.12	106.97	101.90	111.62	103.33
14000	0.13	0.12	0.12	0.13	0.12	0.12	101.38	99.73	111.48	102.72	104.28	103.10
16000	0.19	0.17	0.17	0.20	0.16	0.19	116.91	92.27	94.60	105.12	93.21	99.14
18000	0.27	0.24	0.25	0.29	0.24	0.27	100.84	101.53	100.57	105.49	92.87	112.61
20000	0.23	0.21	0.21	0.23	0.22	0.22	94.36	107.61	87.07	90.26	98.36	93.14
22000	0.23	0.21	0.20	0.24	0.23	0.20	89.79	83.88	90.19	86.35	93.67	84.31
24000	0.36	0.35	0.35	0.40	0.37	0.33	84.43	96.95	89.43	98.07	93.65	99.43
26000	0.23	0.25	0.24	0.24	0.26	0.26	91.38	88.14	98.24	85.03	94.66	97.27
26500	0.23	0.23	0.23	0.23	0.24	0.27	105.85	92.19	91.50	101.34	93.21	92.80



Xtra Long Life

USB/ETHERNET RF SP6T SWITCH MATRIX

RC-1SP6T-26

Typical Performance Data

FREQUENCY (MHz)	VSWR (Active Ports) (:1)							VSWR (Inactive Ports) (:1)					
	IN	J1	J2	J3	J4	J5	J6	J1	J2	J3	J4	J5	J6
100	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.01	1.01	1.00	1.01	1.02	1.01
200	1.01	1.01	1.01	1.01	1.01	1.01	1.01	1.00	1.00	1.00	1.01	1.02	1.00
400	1.02	1.02	1.02	1.02	1.02	1.02	1.01	1.00	1.00	1.01	1.01	1.02	1.00
600	1.02	1.02	1.03	1.03	1.03	1.03	1.02	1.00	1.00	1.01	1.01	1.01	1.00
800	1.03	1.03	1.04	1.03	1.03	1.04	1.03	1.01	1.00	1.01	1.02	1.01	1.01
1000	1.04	1.04	1.04	1.04	1.04	1.05	1.04	1.01	1.01	1.01	1.02	1.01	1.01
1200	1.05	1.05	1.05	1.05	1.05	1.05	1.04	1.01	1.01	1.02	1.03	1.01	1.01
1400	1.06	1.06	1.06	1.06	1.06	1.06	1.05	1.01	1.01	1.02	1.03	1.00	1.01
1600	1.06	1.06	1.07	1.07	1.07	1.07	1.06	1.02	1.02	1.02	1.03	1.01	1.02
1800	1.07	1.07	1.08	1.07	1.07	1.07	1.06	1.02	1.02	1.03	1.04	1.01	1.02
2000	1.07	1.07	1.08	1.08	1.07	1.08	1.07	1.02	1.02	1.03	1.04	1.01	1.02
2200	1.08	1.08	1.09	1.08	1.08	1.08	1.07	1.02	1.02	1.04	1.04	1.02	1.03
2600	1.09	1.09	1.10	1.09	1.08	1.09	1.08	1.03	1.03	1.04	1.05	1.03	1.03
2800	1.09	1.09	1.10	1.09	1.09	1.09	1.08	1.03	1.03	1.05	1.05	1.03	1.03
3000	1.09	1.09	1.10	1.09	1.08	1.09	1.08	1.03	1.04	1.05	1.05	1.04	1.03
3200	1.09	1.09	1.10	1.09	1.08	1.09	1.08	1.04	1.04	1.05	1.05	1.05	1.04
3400	1.09	1.09	1.10	1.09	1.08	1.09	1.08	1.04	1.04	1.05	1.05	1.05	1.04
3600	1.09	1.09	1.10	1.08	1.07	1.08	1.07	1.04	1.04	1.05	1.05	1.05	1.04
3800	1.08	1.08	1.10	1.08	1.07	1.08	1.07	1.04	1.05	1.06	1.05	1.06	1.04
4000	1.08	1.08	1.10	1.08	1.07	1.07	1.07	1.05	1.05	1.06	1.05	1.06	1.04
4200	1.07	1.07	1.09	1.07	1.06	1.07	1.06	1.05	1.05	1.06	1.05	1.07	1.05
4400	1.07	1.07	1.09	1.06	1.05	1.07	1.06	1.05	1.05	1.06	1.05	1.07	1.05
4600	1.06	1.07	1.08	1.06	1.05	1.06	1.06	1.05	1.05	1.06	1.05	1.07	1.05
4800	1.05	1.06	1.08	1.05	1.04	1.06	1.06	1.05	1.05	1.07	1.05	1.08	1.05
5000	1.04	1.05	1.07	1.05	1.03	1.06	1.06	1.06	1.05	1.07	1.05	1.08	1.05
5200	1.04	1.05	1.07	1.05	1.04	1.06	1.06	1.06	1.05	1.07	1.04	1.08	1.05
5400	1.03	1.05	1.06	1.05	1.03	1.06	1.06	1.06	1.05	1.07	1.04	1.08	1.05
5600	1.03	1.05	1.06	1.06	1.04	1.07	1.07	1.06	1.05	1.07	1.04	1.08	1.05
5800	1.03	1.05	1.05	1.06	1.05	1.07	1.07	1.06	1.05	1.07	1.04	1.08	1.05
6000	1.03	1.05	1.05	1.07	1.05	1.07	1.08	1.06	1.05	1.07	1.04	1.08	1.05
6200	1.04	1.06	1.05	1.07	1.06	1.08	1.08	1.06	1.05	1.07	1.04	1.08	1.05
6400	1.05	1.06	1.05	1.07	1.06	1.08	1.09	1.06	1.05	1.06	1.05	1.08	1.05
6600	1.05	1.06	1.05	1.08	1.06	1.09	1.09	1.07	1.05	1.07	1.05	1.07	1.06
6800	1.05	1.06	1.05	1.08	1.07	1.09	1.09	1.07	1.04	1.07	1.05	1.07	1.06
7000	1.06	1.07	1.05	1.08	1.07	1.09	1.09	1.07	1.04	1.06	1.06	1.07	1.06
7200	1.06	1.06	1.04	1.08	1.07	1.09	1.09	1.07	1.04	1.07	1.06	1.07	1.06
7400	1.06	1.06	1.04	1.08	1.06	1.08	1.09	1.07	1.04	1.06	1.07	1.06	1.06
7600	1.07	1.06	1.04	1.08	1.06	1.08	1.09	1.07	1.04	1.06	1.07	1.06	1.06
7800	1.07	1.06	1.04	1.07	1.06	1.08	1.09	1.07	1.04	1.07	1.07	1.06	1.06
8000	1.07	1.05	1.03	1.07	1.05	1.07	1.08	1.07	1.04	1.06	1.08	1.05	1.07
8200	1.07	1.05	1.03	1.07	1.05	1.07	1.08	1.07	1.04	1.06	1.08	1.05	1.07
8400	1.07	1.04	1.03	1.06	1.04	1.06	1.07	1.07	1.05	1.06	1.09	1.05	1.07
8600	1.07	1.04	1.03	1.06	1.04	1.05	1.06	1.07	1.05	1.06	1.09	1.05	1.07
8800	1.07	1.04	1.03	1.06	1.03	1.05	1.06	1.07	1.05	1.06	1.09	1.05	1.07
9000	1.07	1.04	1.03	1.06	1.04	1.05	1.06	1.07	1.05	1.06	1.09	1.04	1.08
9200	1.07	1.04	1.03	1.06	1.04	1.05	1.05	1.07	1.05	1.06	1.09	1.04	1.08
9400	1.08	1.04	1.04	1.06	1.05	1.05	1.05	1.07	1.06	1.06	1.09	1.04	1.08
9600	1.08	1.05	1.05	1.07	1.06	1.05	1.05	1.06	1.06	1.06	1.09	1.04	1.08
9800	1.09	1.06	1.05	1.08	1.07	1.05	1.06	1.07	1.06	1.06	1.09	1.04	1.08
10000	1.09	1.06	1.06	1.08	1.08	1.05	1.06	1.07	1.07	1.06	1.09	1.05	1.08
12000	1.07	1.08	1.07	1.08	1.09	1.04	1.07	1.09	1.11	1.08	1.12	1.10	1.11
14000	1.07	1.06	1.05	1.05	1.05	1.02	1.07	1.19	1.23	1.19	1.26	1.25	1.22
16000	1.25	1.23	1.19	1.19	1.24	1.18	1.22	1.24	1.31	1.24	1.31	1.33	1.30
18000	1.42	1.41	1.34	1.36	1.43	1.35	1.38	1.18	1.25	1.16	1.21	1.26	1.24
20000	1.28	1.28	1.22	1.22	1.28	1.24	1.26	1.15	1.24	1.16	1.20	1.23	1.22
22000	1.25	1.24	1.22	1.23	1.25	1.25	1.24	1.18	1.24	1.10	1.19	1.19	1.17
24000	1.50	1.50	1.47	1.49	1.55	1.50	1.42	1.05	1.05	1.09	1.07	1.05	1.02
26000	1.20	1.22	1.25	1.26	1.20	1.26	1.26	1.29	1.26	1.40	1.42	1.36	1.34
26500	1.19	1.14	1.16	1.17	1.07	1.19	1.26	1.35	1.34	1.45	1.49	1.43	1.41



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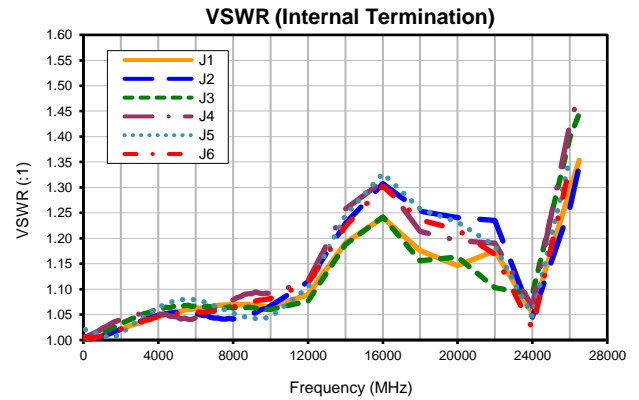
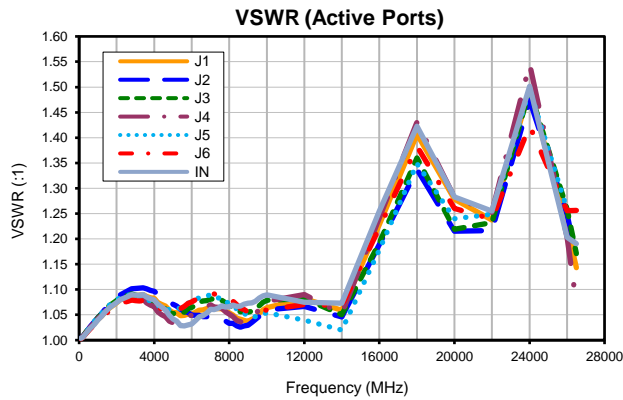
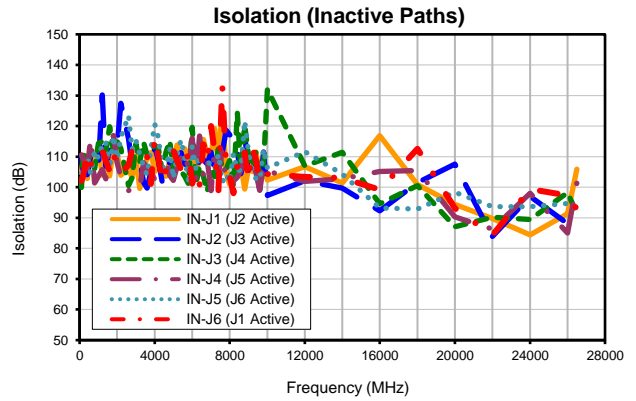
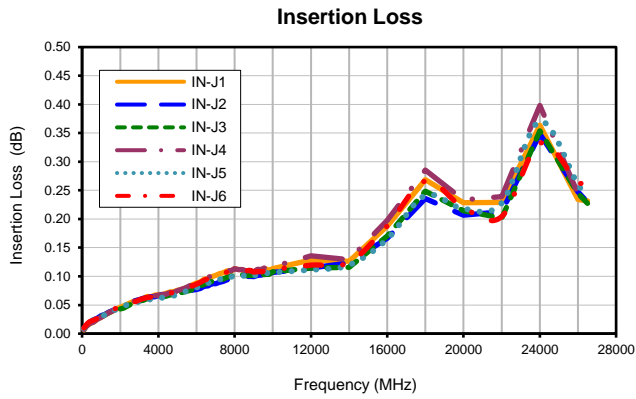
REV. OR
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Xtra Long Life

USB/ETHERNET RF SP6T SWITCH MATRIX

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Typical Performance Data



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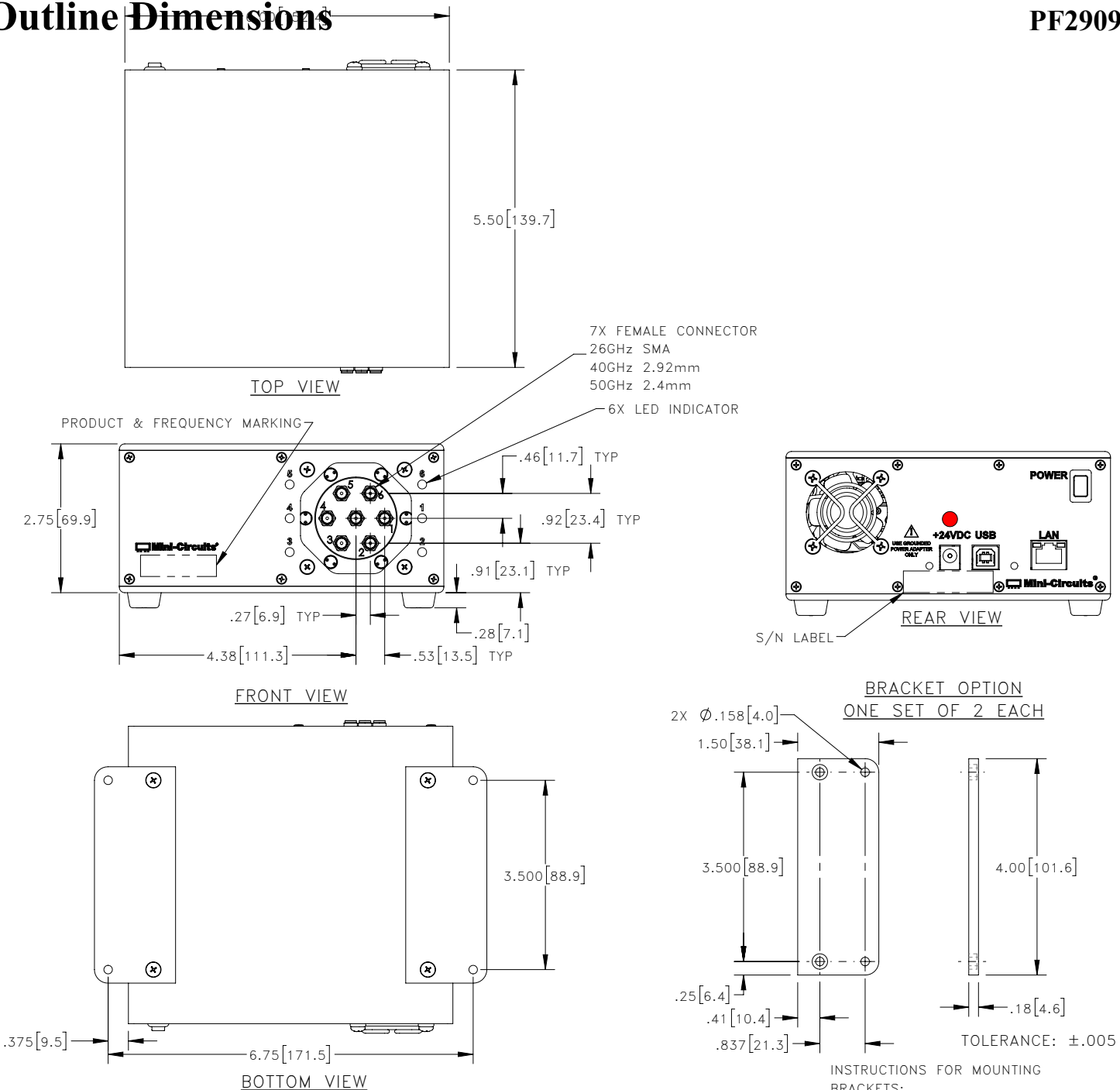


IF/RF MICROWAVE COMPONENTS

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Outline Dimensions

PF2909



SHOWN WITH RUBBER FEET REMOVED AND BRACKETS INSTALLED.

Notes:

1. Case material: Aluminum (with protective coating to prevent corrosion).
2. Dimensions are in inches (mm). Tolerances: 2 Pl. \pm .01 inch; 3 Pl. \pm .005 inch.
3. Weight: 1110 grams.
4. Marking may contain other features or characters for internal lot control.

INSTRUCTIONS FOR MOUNTING BRACKETS:
TOOL REQUIRED: PHILLIPS HEAD SCREWDRIVER
STEP 1: REMOVE RUBBER FEET FROM THE BOTTOM OF THE UNIT. DO NOT DISCARD THE FASTENERS.
STEP 2: MOUNT THE BRACKETS WITH THE FASTENERS REMOVED IN STEP 1, USING THE COUNTER BORE HOLES IN THE BRACKET.

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RF/IF MICROWAVE COMPONENTS



All Mini-Circuits products are manufactured under exacting quality assurance and control standards, and are capable of meeting published specifications after being subjected to any or all of the following physical and environmental test.

Specification	Test/Inspection Condition	Reference/Spec
Operating Temperature	0° to 40° C Ambient Environment	Individual Model Data Sheet
Storage Temperature	-15° to 85°C Ambient Environment	Individual Model Data Sheet
Operating and Storage Humidity	5% to 85% RH (non-condensing)	Ambient
Bench Handling Test	Bench Top Tip 45° & Drop	MIL-PRF-28800F
Transit Drop Test	Free Fall Drop, 20 cm (7.9 inches)	MIL-PRF-28800F class 3