USB & ETHERNET CONTROLLED

RF SP4T Switch Matrix RC-2SP4T-40

50Ω DC to 40 GHz 2.92 mm-Female

THE BIG DEAL

- Dual mechanical SP4T switch
- Excellent performance to 40 GHz
- High reliability, 2 million switch cycles
- 5W power rating (cold switching)



CASE STYLE: MR2616

DOWNLOAD SOFTWARE PACKAGE

RoHS Compliant
See our website for RoHS Compliance methodologies and qualifications

APPLICATIONS

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

PRODUCT OVERVIEW

Mini-Circuits' RC-2SP4T-40 comprises a pair of independently controlled, electro-mechanical SP4T switches. Each switch operates over an extremely wide bandwidth, from DC to 40 GHz with high isolation and low insertion loss. The absorptive switches are of a fail-safe and break-before-make-configuration, with a lifetime of 2 million switching cycles, when used within the noted specifications.

The switch box is constructed in a compact, rugged metal case (5.5 x 6.0 x 2.25") with 10 2.92 mm (f) RF connectors on the front panel. The switches are 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
Dual mechanical SP4T switches	Mechanical absorptive switches provide high reliability, repeatable high performance and internal terminations of input signals on the disconnected paths
Operation from DC to 40 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

RF SP4T Switch Matrix RC-2SP4T-40

50Ω DC to 40 GHz 2.92 mm-Female

ELECTRICAL SPECIFICATIONS AT +25°C

Parameter	Conditions	Min.	Typ.	Max.	Units
Frequency		DC		40	GHz
Path Loss	DC – 12 GHz		0.2	0.5	dB
	12 – 26 GHz		0.3	0.7	
	26 – 40 GHz		0.6	1.1	
Isolation[1] (Inactive Paths)	DC – 12 GHz	60	80		dB
	12 – 26 GHz	55	75		
	26 – 40 GHz	50	65		
Return Loss[2]	DC – 12 GHz		19		dB
	12 – 26 GHz		17		
	26 – 40 GHz		14		
Switching Time			25		ms
RF Input Power	Cold switching, DC – 12 GHz			20	W
	Cold switching, 12 – 26 GHz			10	
	Cold switching, 26 – 40 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 1-4 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

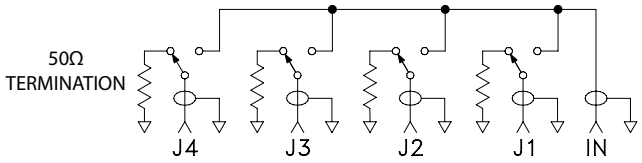
Parameters	Ratings
Operating Temperature	0 °C to 40 °C
Storage Temperature	-15 °C to 85 °C
Supply Voltage	26 V

RF SP4T Switch Matrix RC-2SP4T-40

50Ω DC to 40 GHz 2.92 mm-Female

SWITCHING CONFIGURATION:

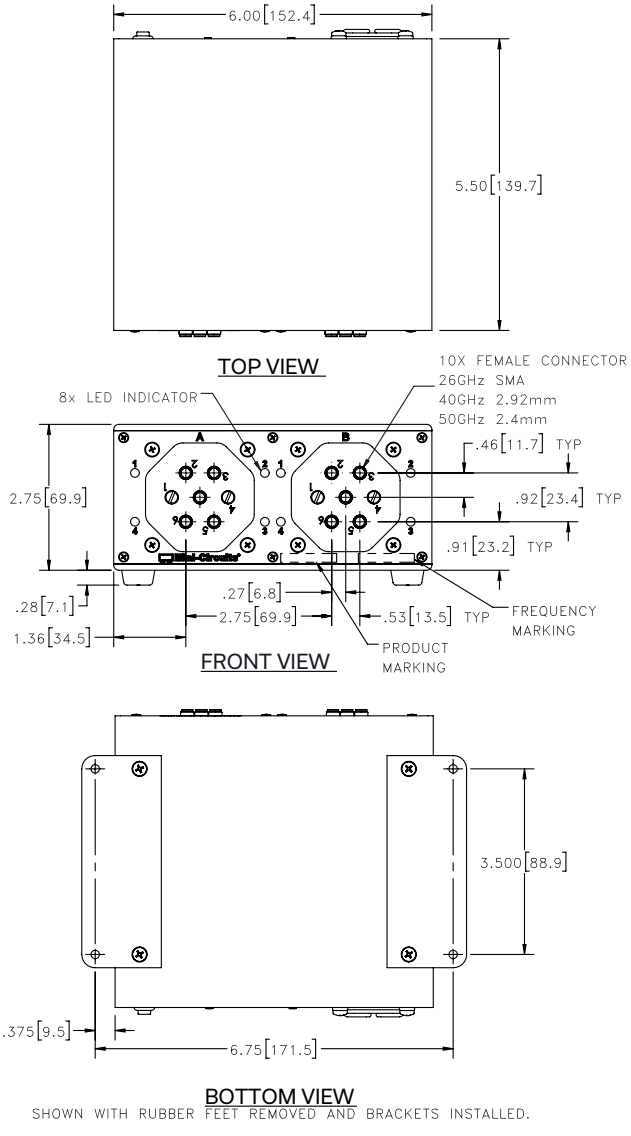
- Normally open (all port disconnected)
- Absorptive (internal terminations on ports J1-J4)

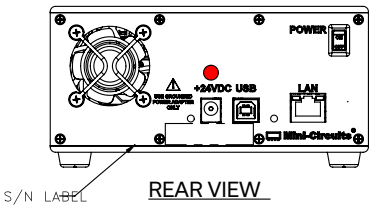


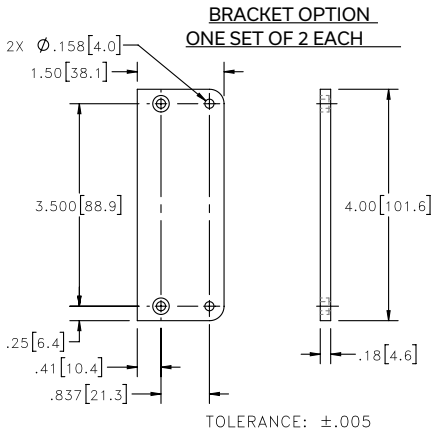
CONNECTIONS

Port Name	Connector Type
RF Switch A (Com,1,2,3&4)	2.92 mm female
RF Switch B (Com,1,2,3&4)	2.92 mm female
USB	USB type-B
Ethernet / LAN	RJ45
24V $_{DC}$ Input	2.1mm center positive DC socket

OUTLINE DRAWING (MR2616)







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.

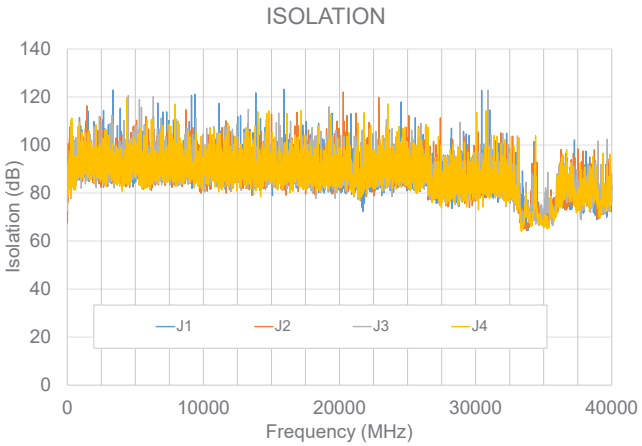
Weight: 1290 grams.
Dimensions are in inches [mm]. Tolerances: 2 Pl.±.03 inch; 3 Pl.±.015 inch.

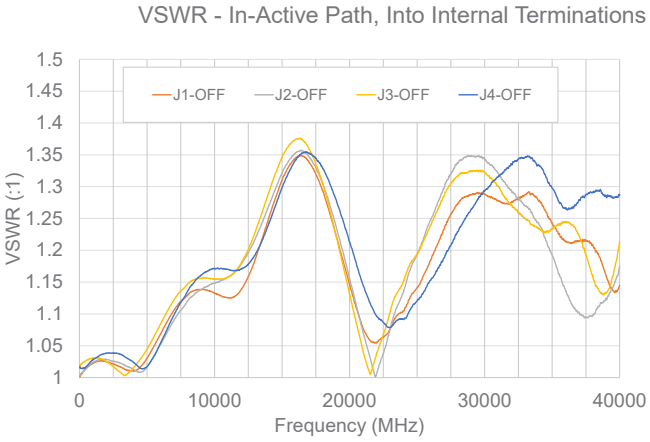
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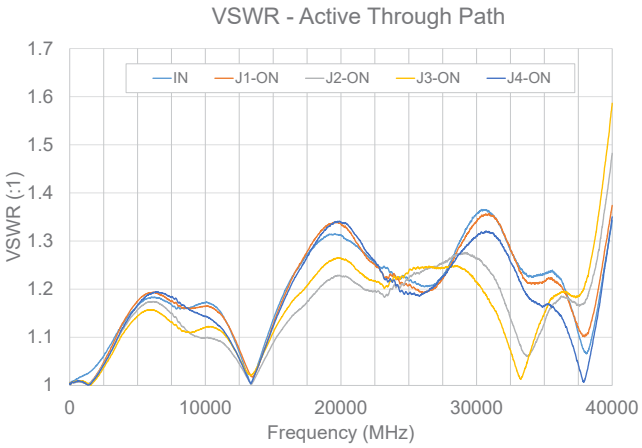
50Ω DC to 40 GHz 2.92 mm-Female

TYPICAL PERFORMANCE GRAPHS (PER SWITCH)









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 suported environments)

USB SUPPORT (LINUX):

- Direct USB programming using a series of USB interrupt codes

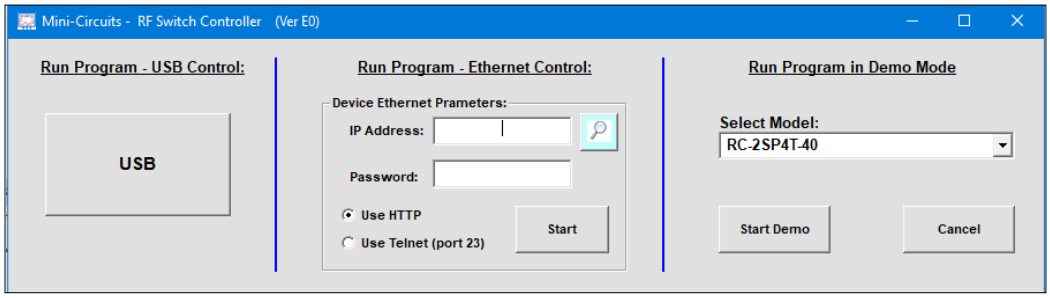
Full programming instructions and examples available for a wide range of programming environments / languages.

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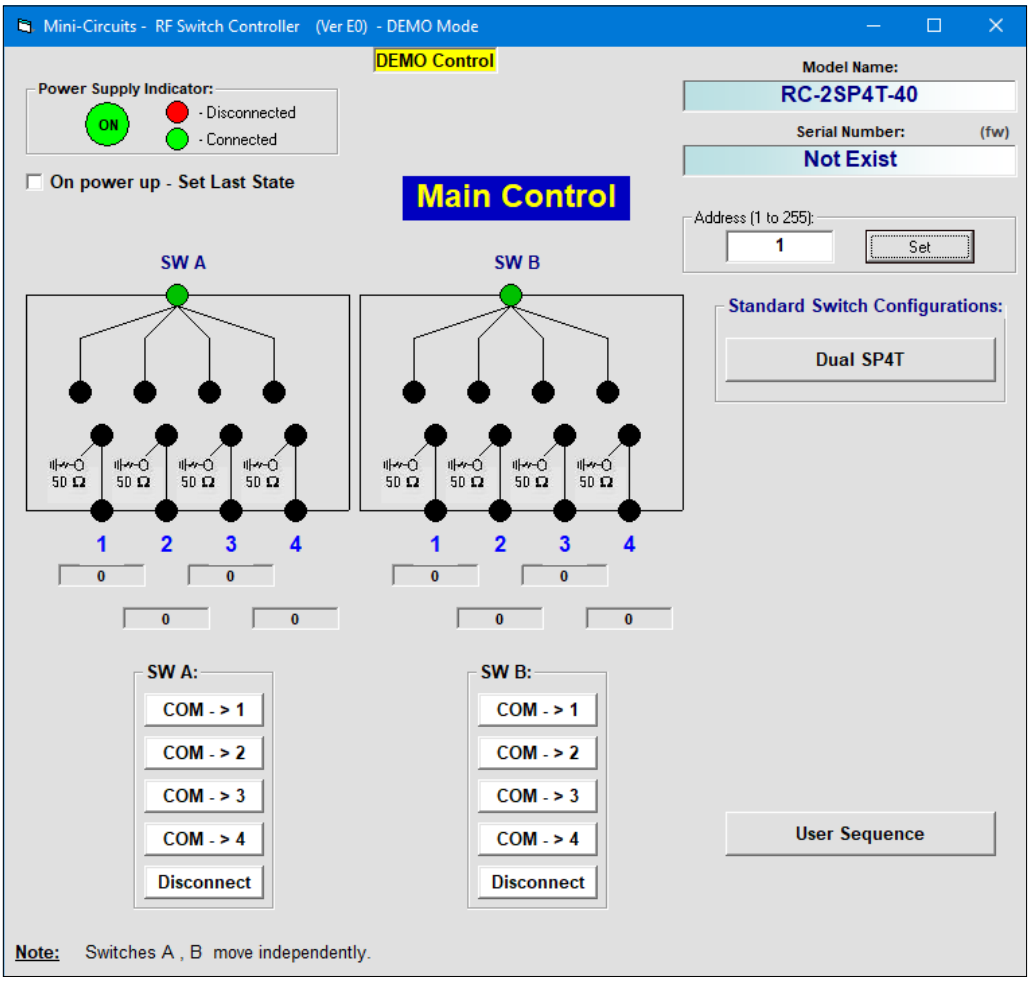
50Ω DC to 40 GHz 2.92 mm-Female

GRAPHICAL USER INTERFACE (GUI) FOR WINDOWS - KEY FEATURES

- Connect via USB or Ethernet
- Run GUI in "demo mode" to evaluate software without a hardware connection



- View and set switch states at the click of a button
- Configure and run timed switching sequences
- Set start-up switch state
- Configure Ethernet IP settings



RF SP4T Switch Matrix RC-2SP4T-40

50Ω DC to 40 GHz 2.92 mm-Female

ORDERING INFORMATION

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

Model	Description
RC-2SP4T-40	USB & Ethernet controlled SP4T 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)

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ALTERNATIVE MODELS

Mini-Circuits has a number of options for larger switching systems comprising more than 2 transfer switches, or combinations of switch types. Please contact testsolutions@minicircuits.com with your requirements.



ZTM SERIES

The ZTM Series test platform contains 6 customizable windows on the front panel, each of which can be populated with your choice of DC-40 GHz switch components:

- Up to two SPDT reflective mechanical switches per window
- Up to two mechanical transfer switches per window
- One SP4T mechanical switch per window
- One SP6T mechanical switch per window



RCM-400 SERIES

The RCM-400 series modular test systems offer flexibility and fast turnaround for compact test setups. The design consists of a small, light-weight chassis with up to three open hardware windows, each of which may be outfitted with your choice of DC-40 GHz switches:

- 6 mechanical SPDT reflective or transfer switches
- 3 mechanical SP4T or SP6T switches
- Custom combinations of SPDT, SP4T, SP6T and transfer switches

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/MCLStore/terms.jsp

Xtra Long Life
USB/ETHERNET RF SP4T MATRIX RC-2SP4T-40

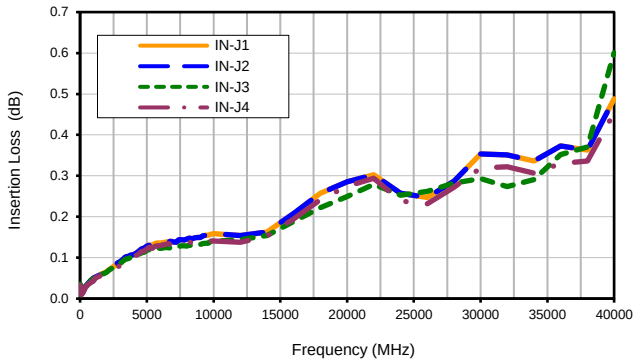
Typical Performance Data (per Switch)

FREQUENCY	INSERTION LOSS (dB)				ISOLATON (dB)				VSWR (Active Ports) (:1)					VSWR (Inactive Ports) (:1)			
(MHz)	IN-J1	IN-J2	IN-J3	IN-J4	IN-J1	IN-J2	IN-J3	IN-J4	IN	J1	J2	J3	J4	J1	J2	J3	J4
10	0.03	0.03	0.03	0.03	71.03	67.46	82.60	72.57	1.01	1.00	1.00	1.01	1.00	1.00	1.00	1.02	1.02
50	0.01	0.01	0.01	0.01	85.37	78.17	80.69	92.02	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.02	1.01
100	0.01	0.01	0.01	0.01	94.69	83.43	92.51	86.60	1.01	1.00	1.00	1.00	1.00	1.00	1.01	1.02	1.01
200	0.02	0.02	0.01	0.02	93.59	107.52	90.47	81.91	1.01	1.01	1.01	1.01	1.01	1.01	1.01	1.02	1.01
400	0.03	0.03	0.03	0.03	83.85	85.56	83.45	85.45	1.01	1.01	1.01	1.01	1.01	1.01	1.01	1.03	1.02
600	0.04	0.04	0.03	0.03	86.98	90.22	83.71	91.87	1.01	1.01	1.01	1.01	1.01	1.02	1.02	1.03	1.02
800	0.04	0.04	0.04	0.04	88.40	95.17	92.91	91.61	1.02	1.01	1.01	1.01	1.01	1.02	1.02	1.03	1.02
1000	0.05	0.05	0.05	0.04	93.82	96.54	98.86	96.21	1.02	1.01	1.01	1.01	1.01	1.02	1.02	1.03	1.03
1200	0.05	0.05	0.05	0.05	86.54	87.41	88.26	86.35	1.02	1.00	1.00	1.01	1.00	1.02	1.03	1.03	1.03
1400	0.06	0.06	0.06	0.05	95.01	100.79	94.44	95.99	1.03	1.00	1.00	1.00	1.00	1.03	1.03	1.03	1.03
1600	0.06	0.06	0.06	0.06	91.61	91.73	87.27	94.49	1.03	1.01	1.01	1.00	1.01	1.03	1.03	1.03	1.04
1800	0.06	0.06	0.06	0.06	91.94	94.40	93.82	90.90	1.04	1.02	1.01	1.01	1.01	1.03	1.03	1.03	1.04
2000	0.07	0.07	0.06	0.06	84.83	88.13	87.73	97.25	1.04	1.02	1.02	1.01	1.02	1.03	1.03	1.03	1.04
2200	0.07	0.07	0.07	0.07	94.32	100.32	89.28	91.58	1.05	1.03	1.03	1.02	1.03	1.02	1.03	1.02	1.04
2600	0.08	0.08	0.08	0.07	95.22	106.18	87.77	95.63	1.07	1.05	1.05	1.04	1.05	1.02	1.03	1.02	1.04
2800	0.09	0.09	0.08	0.08	97.95	97.71	94.36	106.43	1.08	1.06	1.06	1.05	1.06	1.02	1.02	1.01	1.04
3000	0.09	0.09	0.09	0.08	91.06	89.49	91.18	90.09	1.08	1.08	1.07	1.06	1.07	1.02	1.02	1.01	1.04
3200	0.10	0.10	0.09	0.09	97.19	91.73	92.10	94.96	1.09	1.09	1.08	1.07	1.08	1.01	1.02	1.00	1.03
3400	0.10	0.10	0.10	0.10	90.93	88.16	98.53	86.49	1.11	1.10	1.09	1.08	1.09	1.01	1.02	1.00	1.03
3600	0.10	0.10	0.10	0.10	93.22	90.58	89.80	89.07	1.12	1.11	1.10	1.09	1.10	1.01	1.02	1.01	1.03
3800	0.11	0.11	0.10	0.10	88.73	87.49	88.59	96.63	1.12	1.12	1.11	1.10	1.11	1.01	1.02	1.01	1.03
4000	0.11	0.11	0.10	0.10	86.29	98.01	99.98	95.27	1.13	1.13	1.12	1.11	1.12	1.01	1.01	1.02	1.02
4200	0.11	0.11	0.10	0.11	86.80	92.96	96.84	86.63	1.14	1.14	1.13	1.12	1.13	1.01	1.01	1.02	1.02
4400	0.12	0.12	0.11	0.11	89.51	88.52	95.95	119.85	1.15	1.15	1.14	1.13	1.14	1.01	1.01	1.03	1.02
4600	0.12	0.12	0.11	0.11	101.30	90.92	88.88	101.47	1.15	1.16	1.14	1.13	1.15	1.02	1.01	1.03	1.01
4800	0.12	0.12	0.11	0.12	92.95	89.76	88.03	90.42	1.16	1.17	1.15	1.14	1.16	1.02	1.01	1.04	1.01
5000	0.13	0.13	0.12	0.12	93.00	87.32	97.78	86.57	1.17	1.18	1.16	1.14	1.17	1.03	1.02	1.04	1.02
5200	0.13	0.13	0.12	0.13	89.41	87.14	95.79	96.85	1.17	1.18	1.16	1.15	1.17	1.04	1.02	1.05	1.02
5400	0.13	0.13	0.12	0.12	90.92	91.23	85.21	92.25	1.18	1.19	1.17	1.15	1.18	1.04	1.03	1.06	1.03
5600	0.13	0.13	0.12	0.13	81.63	92.75	88.95	97.64	1.18	1.19	1.17	1.16	1.18	1.05	1.04	1.07	1.04
5800	0.14	0.14	0.12	0.13	87.63	88.84	93.62	97.05	1.18	1.19	1.17	1.16	1.19	1.06	1.04	1.08	1.05
6000	0.14	0.14	0.12	0.13	97.00	90.58	82.71	85.39	1.18	1.19	1.17	1.16	1.19	1.07	1.05	1.08	1.05
6200	0.14	0.14	0.12	0.13	84.01	95.05	91.54	89.31	1.18	1.19	1.17	1.16	1.19	1.08	1.06	1.09	1.06
6400	0.14	0.14	0.13	0.13	86.32	83.68	101.11	85.54	1.18	1.19	1.17	1.15	1.19	1.08	1.07	1.10	1.07
6600	0.14	0.14	0.12	0.13	90.12	85.71	93.07	88.22	1.18	1.19	1.17	1.15	1.19	1.09	1.08	1.11	1.08
6800	0.14	0.14	0.12	0.13	90.17	96.89	104.28	93.31	1.18	1.19	1.17	1.15	1.19	1.10	1.08	1.12	1.09
7000	0.14	0.14	0.12	0.13	96.29	88.25	92.07	91.13	1.18	1.18	1.16	1.14	1.19	1.11	1.09	1.12	1.10
7200	0.14	0.14	0.12	0.13	93.31	83.18	101.92	95.52	1.17	1.18	1.16	1.14	1.19	1.11	1.10	1.13	1.11
7400	0.14	0.14	0.13	0.14	85.32	94.84	93.28	89.76	1.17	1.18	1.15	1.13	1.18	1.12	1.10	1.13	1.11
7600	0.14	0.14	0.13	0.14	85.61	86.68	87.39	107.82	1.16	1.17	1.15	1.13	1.18	1.12	1.11	1.14	1.12
7800	0.14	0.14	0.13	0.14	92.83	96.67	97.37	97.06	1.16	1.17	1.14	1.13	1.18	1.13	1.11	1.14	1.13
8000	0.15	0.15	0.13	0.14	84.29	88.90	110.84	92.70	1.16	1.17	1.13	1.12	1.17	1.13	1.12	1.15	1.14
8200	0.15	0.15	0.13	0.14	94.82	95.84	96.65	95.91	1.16	1.16	1.13	1.12	1.17	1.13	1.13	1.15	1.14
8400	0.15	0.15	0.13	0.14	92.86	94.08	88.43	88.50	1.16	1.16	1.12	1.11	1.17	1.14	1.13	1.15	1.15
8600	0.15	0.15	0.13	0.14	93.21	94.46	93.01	85.05	1.16	1.16	1.11	1.11	1.16	1.14	1.13	1.15	1.15
8800	0.15	0.15	0.13	0.14	96.88	88.50	92.33	90.87	1.16	1.16	1.11	1.11	1.16	1.14	1.14	1.16	1.16
9000	0.15	0.15	0.13	0.14	92.45	96.71	90.03	83.88	1.16	1.16	1.11	1.11	1.16	1.14	1.14	1.16	1.16
9200	0.15	0.15	0.13	0.14	95.06	97.51	90.74	88.34	1.17	1.16	1.10	1.11	1.15	1.14	1.14	1.16	1.16
9400	0.15	0.15	0.14	0.14	121.14	89.27	87.28	87.98	1.17	1.16	1.10	1.11	1.15	1.14	1.14	1.16	1.17
9600	0.15	0.15	0.14	0.14	96.68	89.85	97.46	90.78	1.17	1.16	1.10	1.12	1.15	1.14	1.15	1.16	1.17
9800	0.16	0.16	0.14	0.14	92.89	92.24	93.44	91.91	1.17	1.16	1.10	1.12	1.15	1.13	1.15	1.16	1.17
10000	0.16	0.16	0.14	0.14	89.30	87.70	104.55	84.58	1.17	1.16	1.10	1.12	1.14	1.13	1.15	1.15	1.17
12000	0.15	0.15	0.14	0.14	90.01	84.97	93.20	99.57	1.10	1.11	1.07	1.08	1.08	1.14	1.18	1.18	1.17
14000	0.16	0.16	0.15	0.15	89.07	101.03	95.89	113.83	1.05	1.05	1.03	1.05	1.05	1.25	1.27	1.29	1.24
16000	0.21	0.21	0.19	0.19	86.37	97.23	88.91	84.43	1.20	1.20	1.13	1.16	1.19	1.35	1.35	1.37	1.34
18000	0.26	0.26	0.22	0.24	84.28	89.79	107.24	89.61	1.29	1.30	1.19	1.22	1.29	1.29	1.31	1.30	1.33
20000	0.29	0.29	0.25	0.27	87.96	89.06	91.38	85.51	1.31	1.34	1.23	1.26	1.34	1.15	1.16	1.13	1.21
22000	0.30	0.30	0.28	0.29	88.43	89.79	81.05	86.39	1.27	1.26	1.20	1.22	1.27	1.05	1.01	1.04	1.10
24000	0.26	0.26	0.25	0.24	85.01	88.19	94.35	89.99	1.23	1.23	1.21	1.22	1.21	1.10	1.14	1.15	1.09
26000	0.25	0.25	0.26	0.23	95.48	94.53	96.07	92.23	1.21	1.19	1.24	1.25	1.19	1.18	1.25	1.24	1.15
28000	0.29	0.29	0.28	0.27	78.93	83.83	82.49	85.07	1.25	1.25	1.26	1.25	1.24	1.27	1.34	1.32	1.23
30000	0.35	0.35	0.29	0.32	95.64	82.32	78.42	89.53	1.36	1.34	1.26	1.22	1.31	1.29	1.34	1.32	1.29
32000	0.35	0.35	0.27	0.32	91.22	79.43	104.80	84.35	1.31	1.32	1.18	1.11	1.29	1.28	1.29	1.27	1.33
34000	0.34	0.34	0.29	0.31	73.28	69.98	72.21	70.47	1.23	1.21	1.07	1.07	1.18	1.28	1.24	1.23	1.33
36000	0.37	0.37	0.35	0.33	72.89	73.13	88.04	78.41	1.23	1.21	1.18	1.19	1.15	1.21	1.14	1.24	1.27
38000	0.36	0.36	0.37	0.34	84.33	76.16	73.14	89.43	1.07	1.10	1.17	1.21	1.01	1.21	1.10	1.16	1.29
40000	0.49	0.49	0.60	0.45	82.84	83.76	79.94	79.16	1.34	1.37	1.48	1.59	1.35	1.14	1.17	1.21	1.29

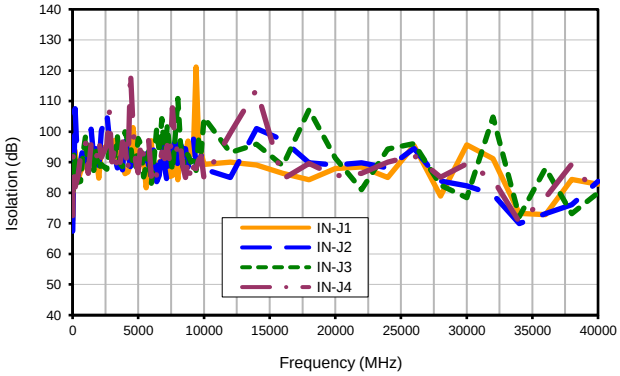
Xtra Long Life
USB/ETHERNET RF SP4T MATRIX RC-2SP4T-40

Typical Performance Data (per Switch)

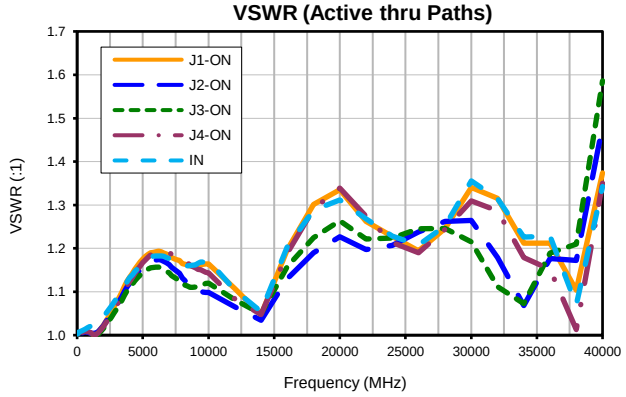
Insertion Loss



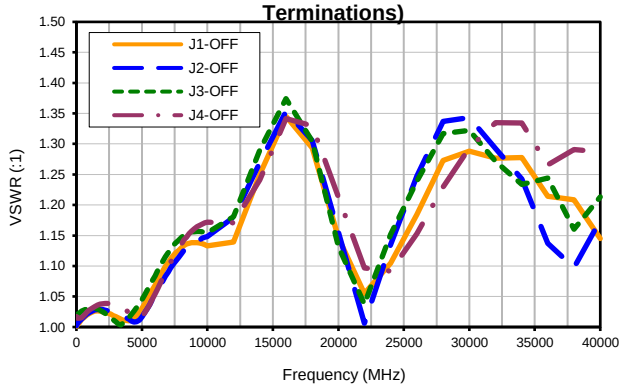
Isolation



VSWR (Active thru Paths)



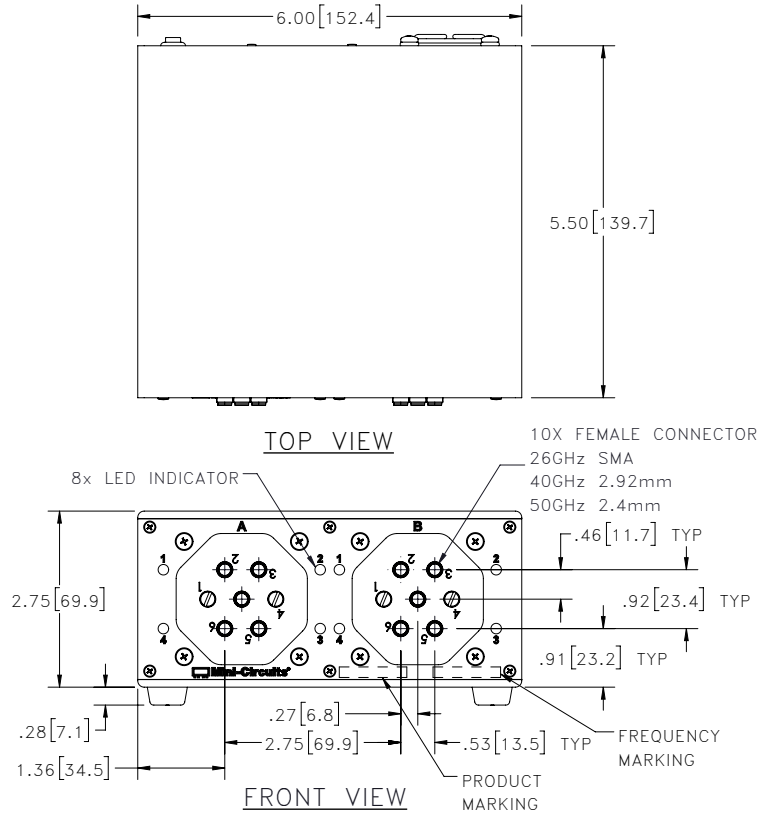
VSWR (In-Active Path, Into Internal Terminations)



Case Style MR

Outline Dimensions

MR2616



Notes:

1. Case material: Aluminum (with protective coating to prevent corrosion).
2. Dimensions are in inches [mm]. Tolerances: 2 Pl. ±.03 inch; 3 Pl. ±.015 inch.
3. Weight: 1290 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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Environmental Specifications **ENV104**

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

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