



Mini-Circuits

USB & ETHERNET CONTROLLED

RF SP6T Switch Matrix RC-2SP6T-A12

50Ω DC to 12 GHz SMA-Female

THE BIG DEAL

- 2 x mechanical terminated SP6T switches
- Ethernet & USB control
- High reliability, 10 million switch cycles
- High isolation, 90 dB typ

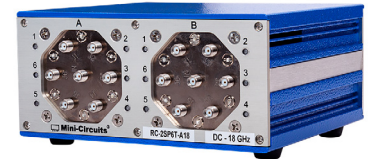
APPLICATIONS

- 5G FR1, WiFi 6E, UWB, Bluetooth
- Automated test equipment
- Fail safe / redundancy switching

PRODUCT OVERVIEW

Mini-Circuits' RC-2SP6T-A12 houses a pair of independently controlled, electro-mechanical switches, operating over an extremely wide bandwidth, from DC to 12 GHz with high isolation and low insertion loss. The absorptive switches are of a failsafe and break-before-make-configuration, with a minimum lifetime of 10 million switching cycles per switch position, 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 all SMA (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).



CASE STYLE: PF2018

DOWNLOAD

SOFTWARE PACKAGE

RoHS Compliant

See our website for RoHS Compliance methodologies and qualifications

KEY FEATURES

Feature	Advantages
Dual mechanical SP6T switches	Mechanical absorptive switches provide high reliability, repeatable high performance and internal terminations of input signals on the disconnected paths
Operation from DC to 12 GHz	Supports a wide range of RF test and signal routing applications, including 5G NR and WiFi 6E 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
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. F
ECO-016502
RC-2SP6T-A12
MCL NY
240227





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RF SP6T Switch Matrix **RC-2SP6T-A12**

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50Ω DC to 12 GHz SMA-Female

ELECTRICAL SPECIFICATIONS

Parameter	Condition (GHz)	Min.	Typ.	Max.	Unit
Frequency Range		DC		12	GHz
Insertion Loss	DC to 1	-	0.10	0.15	dB
	1 to 6	-	0.15	0.25	
	6 to 8	-	0.20	0.30	
	8 to 12	-	0.25	0.45	
Isolation	DC to 1	85	100	-	dB
	1 to 6	80	95	-	
	6 to 8	80	90	-	
	8 to 12	80	90	-	
VSWR	DC to 1	-	1.05	-	:1
	1 to 6	-	1.20	-	
	6 to 8	-	1.20	-	
	8 to 12	-	1.20	-	
Switching Time	-	-	25		ms
RF Input Power (Cold Switching) ¹	DC - 12	-	-	20	W
Switch Lifetime (per Switch)	100mW hot switching ²	10	-	-	million cycles
	1W hot switching	-	1	-	
Rated Voltage	24VDC input	23	24	25	V
	USB port	-	5	-	
Rated Current (24V DC Input)	Both switches, state 1-6	-	250	-	mA
	Both switches, disconnected	-	90	120	
Rated Current (USB)	-	-	10	20	mA

1. Maximum power for any connected through path as stated; maximum power into any internal termination is 1W per port.

2. Hot switching powers above this level will degrade the switch lifetime.

ABSOLUTE MAXIMUM RATINGS

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





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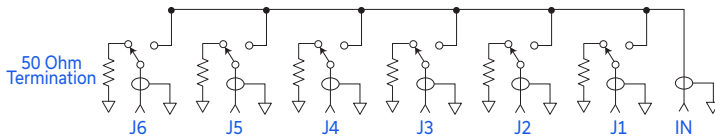
RF SP6T Switch Matrix RC-2SP6T-A12

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50Ω DC to 12 GHz SMA-Female

SWITCHING CONFIGURATION:

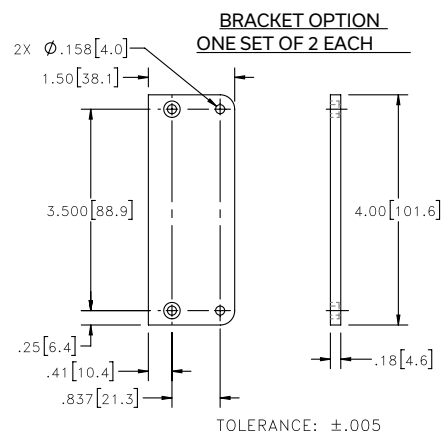
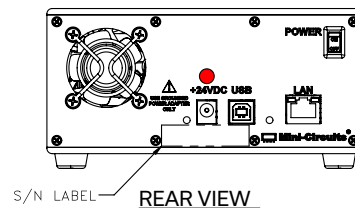
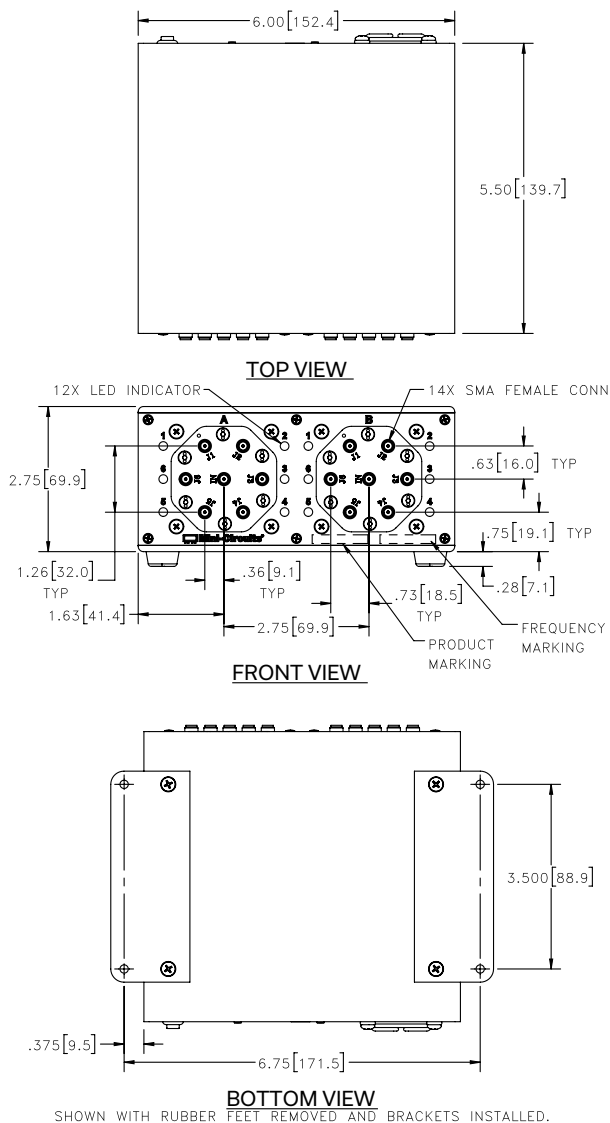
- Normally open (all port disconnected)
- Absorptive (internal terminations on ports J1-J6)



CONNECTIONS

RF Switch A (COM & 1-6)	SMA female
RF Switch B (COM & 1-6)	SMA female
USB	USB type-B
Ethernet / LAN	RJ45
24V DC Input	2.1mm center positive DC socket

OUTLINE DRAWING (PF2018)



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: 1350 grams.

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

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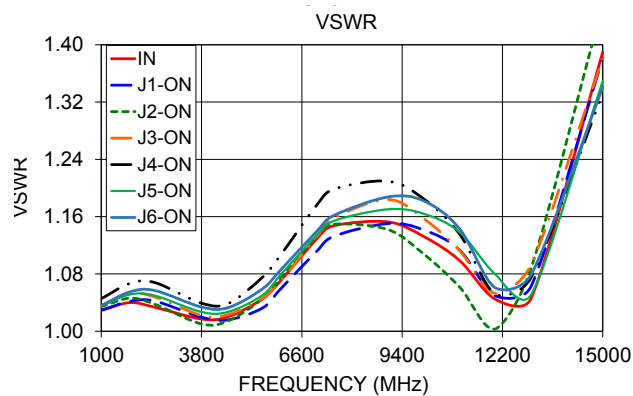
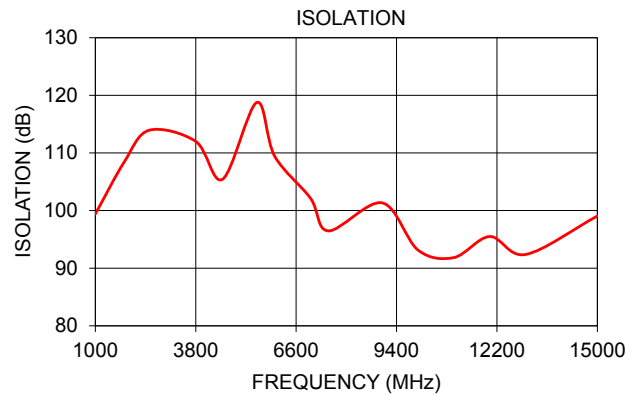
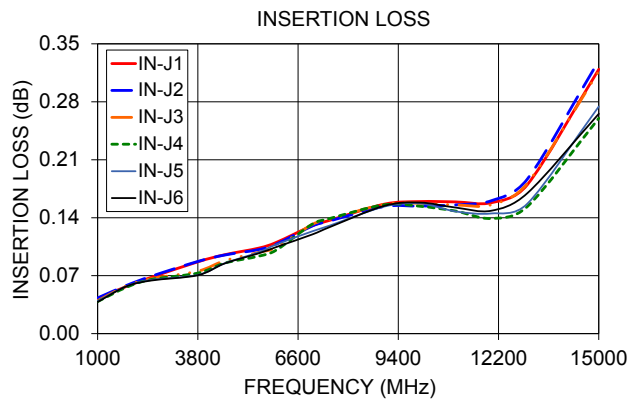
RF SP6T Switch Matrix RC-2SP6T-A12

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50Ω DC to 12 GHz SMA-Female

TYPICAL PERFORMANCE DATA

FREQ. (MHz)	ON INSERTION LOSS (dB)						ISOLA- TION (dB)	VSWR (:1)						
	IN-J1	IN-J2	IN-J3	IN-J4	IN-J5	IN-J6		IN	J1-ON	J2-ON	J3-ON	J4-ON	J5-ON	J6-ON
1000	0.04	0.04	0.04	0.04	0.04	0.04	99.41	1.03	1.03	1.03	1.04	1.05	1.04	1.04
1800	0.06	0.06	0.06	0.06	0.06	0.06	108.37	1.04	1.04	1.05	1.05	1.07	1.05	1.05
2500	0.07	0.07	0.07	0.07	0.06	0.06	113.94	1.03	1.04	1.04	1.05	1.07	1.05	1.06
3800	0.09	0.09	0.08	0.07	0.07	0.07	112.01	1.02	1.02	1.01	1.02	1.04	1.03	1.03
4550	0.10	0.09	0.09	0.09	0.08	0.08	105.44	1.02	1.02	1.01	1.02	1.04	1.03	1.03
5500	0.10	0.10	0.10	0.09	0.10	0.10	118.76	1.05	1.03	1.05	1.05	1.08	1.05	1.06
6000	0.11	0.11	0.10	0.10	0.11	0.10	109.45	1.07	1.06	1.07	1.07	1.11	1.08	1.09
7000	0.13	0.13	0.13	0.13	0.12	0.12	102.15	1.13	1.11	1.13	1.13	1.18	1.13	1.14
7500	0.14	0.14	0.14	0.14	0.13	0.13	96.47	1.15	1.13	1.15	1.16	1.20	1.15	1.16
9000	0.16	0.15	0.16	0.16	0.15	0.15	101.34	1.15	1.15	1.14	1.18	1.21	1.17	1.19
10000	0.16	0.15	0.16	0.15	0.16	0.16	93.14	1.13	1.14	1.11	1.16	1.18	1.16	1.18
11000	0.16	0.16	0.16	0.15	0.15	0.15	91.84	1.10	1.11	1.06	1.11	1.14	1.14	1.14
12000	0.16	0.16	0.16	0.14	0.15	0.15	95.49	1.04	1.05	1.00	1.05	1.05	1.08	1.06
13005	0.18	0.19	0.18	0.15	0.16	0.17	92.38	1.05	1.06	1.09	1.09	1.08	1.05	1.08
15000	0.32	0.33	0.32	0.26	0.27	0.27	99.05	1.39	1.38	1.46	1.38	1.33	1.35	1.34





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 environments

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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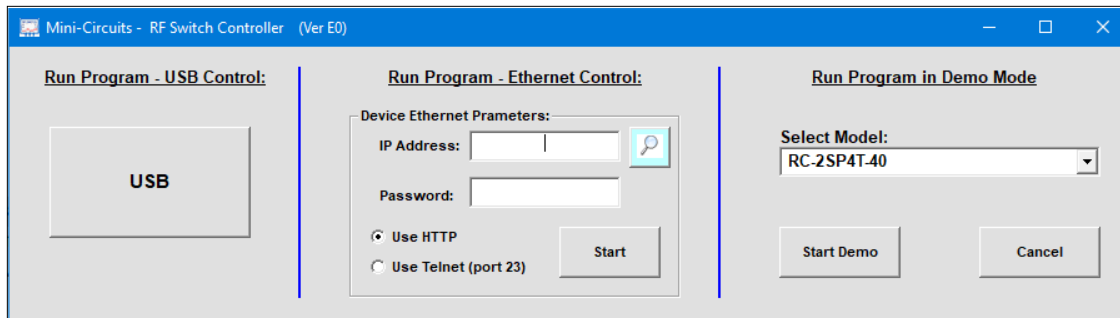
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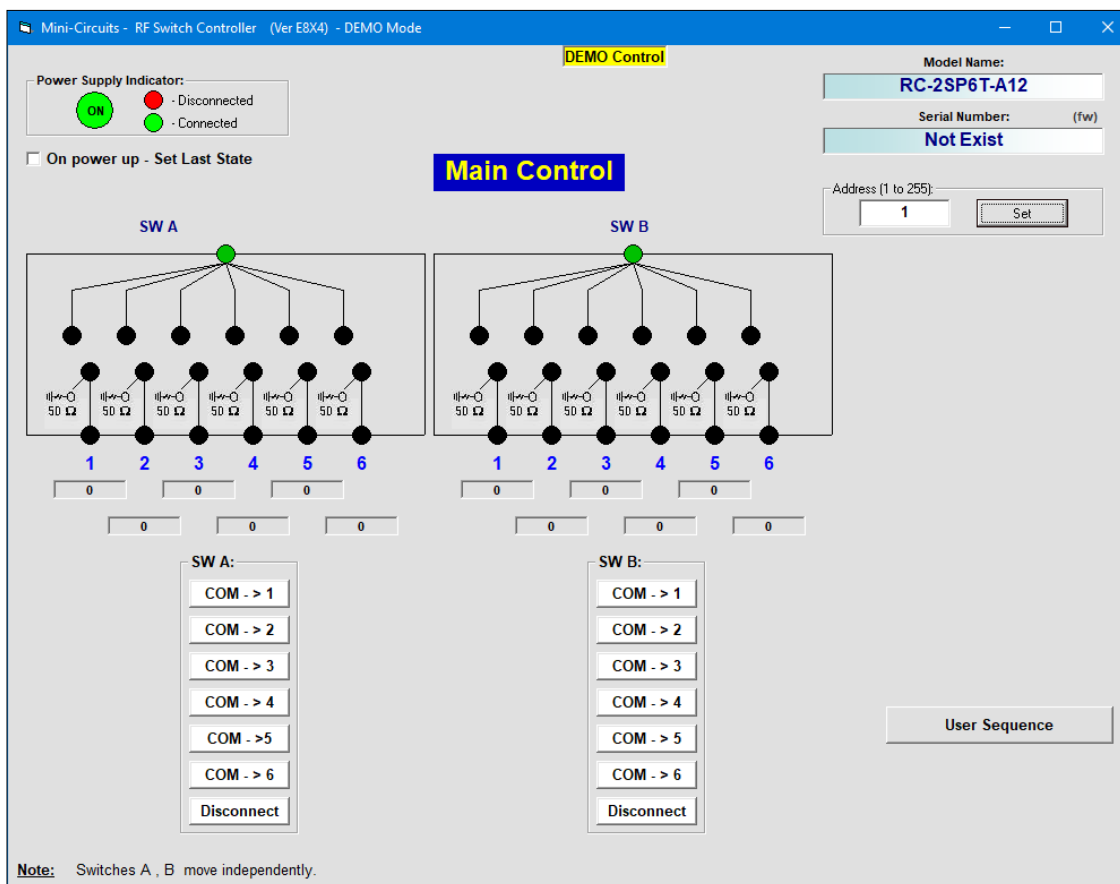
50Ω DC to 12 GHz SMA-Female

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





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50Ω DC to 12 GHz SMA-Female

ORDERING INFORMATION

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

Model	Description
RC-2SP6T-A12	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

- 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.
- Electrical specifications and performance data contained in this specification document are based on Mini-Circuit's applicable established test performance criteria and measurement instructions.
- 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

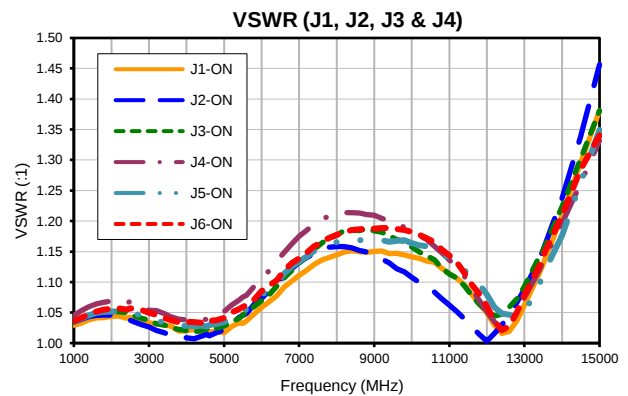
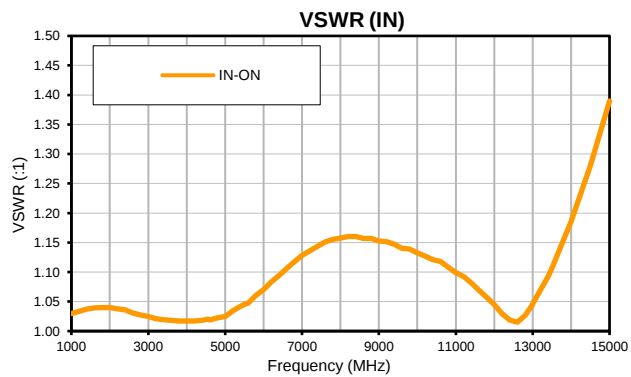
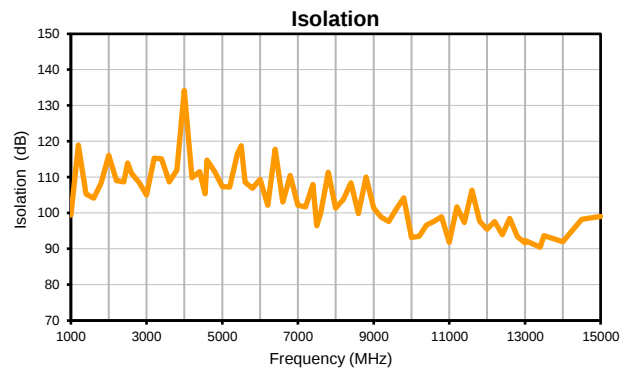
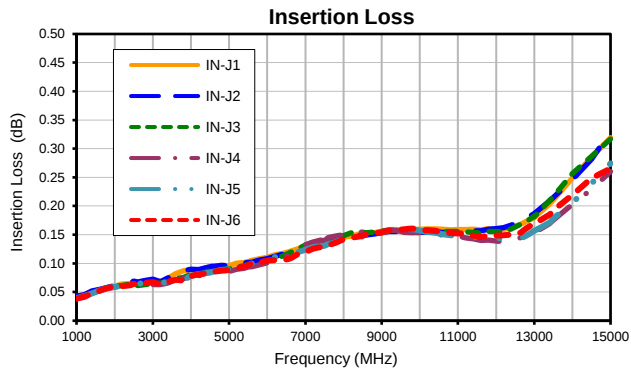


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Typical Performance Data

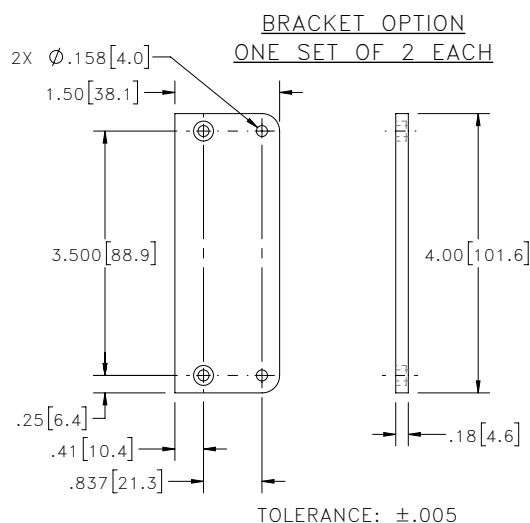
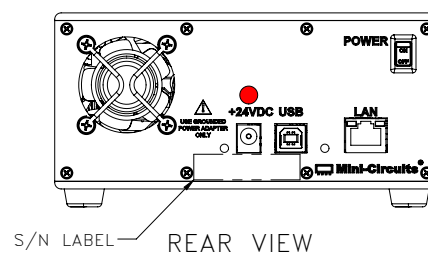
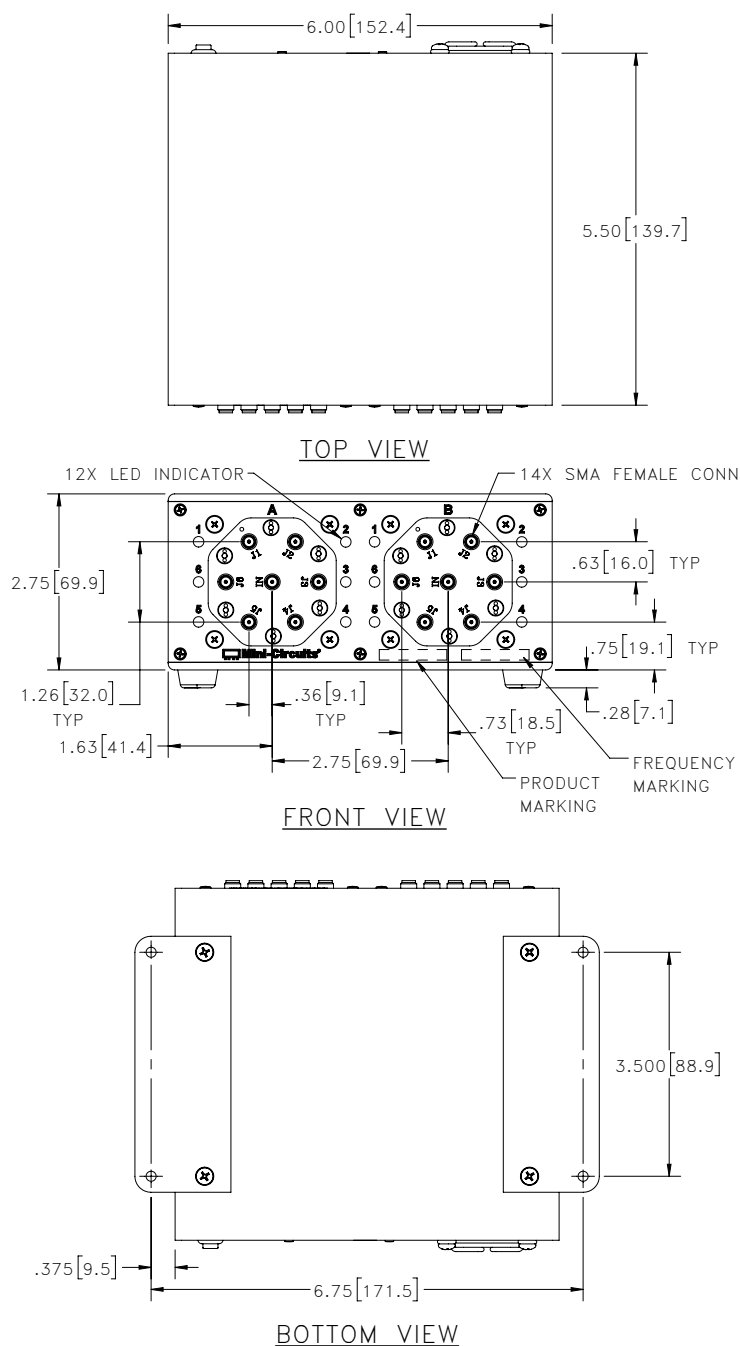
FREQUENCY	INSERTION LOSS						ISOLATON	VSWR						
	(dB)						(dB)	(:1)						
(MHz)	IN-J1	IN-J2	IN-J3	IN-J4	IN-J5	IN-J6		IN	J1-ON	J2-ON	J3-ON	J4-ON	J5-ON	J6-ON
1000	0.04	0.04	0.04	0.04	0.04	0.04	99.41	1.03	1.03	1.03	1.04	1.05	1.04	1.04
1200	0.05	0.05	0.04	0.04	0.04	0.04	118.97	1.03	1.03	1.04	1.04	1.05	1.04	1.04
1400	0.05	0.05	0.05	0.05	0.05	0.05	105.29	1.04	1.04	1.04	1.05	1.06	1.05	1.05
1600	0.05	0.05	0.05	0.05	0.05	0.05	104.18	1.04	1.04	1.05	1.05	1.06	1.05	1.05
1800	0.06	0.06	0.06	0.06	0.06	0.06	108.37	1.04	1.04	1.05	1.05	1.07	1.05	1.05
2000	0.06	0.06	0.06	0.06	0.06	0.06	116.10	1.04	1.04	1.05	1.05	1.07	1.05	1.06
2200	0.06	0.07	0.06	0.06	0.06	0.06	109.06	1.04	1.04	1.04	1.05	1.07	1.05	1.06
2400	0.06	0.07	0.06	0.06	0.06	0.06	108.67	1.04	1.04	1.04	1.05	1.07	1.05	1.05
2500	0.07	0.07	0.07	0.07	0.06	0.06	113.94	1.03	1.04	1.04	1.05	1.07	1.05	1.06
2600	0.07	0.07	0.06	0.06	0.06	0.06	111.12	1.03	1.04	1.04	1.04	1.06	1.05	1.06
2800	0.07	0.07	0.06	0.06	0.07	0.07	108.50	1.03	1.04	1.03	1.04	1.06	1.05	1.05
3000	0.07	0.07	0.06	0.06	0.07	0.07	105.04	1.02	1.03	1.03	1.04	1.05	1.04	1.05
3200	0.07	0.07	0.07	0.06	0.07	0.06	115.33	1.02	1.03	1.02	1.03	1.05	1.04	1.05
3400	0.07	0.07	0.07	0.07	0.07	0.07	115.15	1.02	1.03	1.02	1.03	1.05	1.03	1.04
3600	0.08	0.08	0.07	0.07	0.07	0.07	108.69	1.02	1.03	1.01	1.03	1.04	1.03	1.04
3800	0.09	0.09	0.08	0.07	0.07	0.07	112.01	1.02	1.02	1.01	1.02	1.04	1.03	1.03
4000	0.09	0.09	0.08	0.08	0.08	0.08	134.23	1.02	1.02	1.01	1.02	1.04	1.03	1.03
4200	0.09	0.09	0.08	0.08	0.08	0.08	109.88	1.02	1.02	1.01	1.02	1.04	1.03	1.03
4400	0.09	0.09	0.09	0.08	0.08	0.08	111.60	1.02	1.02	1.01	1.02	1.04	1.03	1.03
4550	0.10	0.09	0.09	0.09	0.08	0.08	105.44	1.02	1.02	1.01	1.02	1.04	1.03	1.03
4600	0.09	0.10	0.09	0.09	0.09	0.09	114.75	1.02	1.02	1.01	1.02	1.04	1.03	1.04
4800	0.10	0.10	0.09	0.08	0.09	0.09	111.59	1.02	1.02	1.02	1.02	1.05	1.03	1.04
5000	0.10	0.10	0.09	0.09	0.09	0.09	107.38	1.02	1.02	1.02	1.03	1.05	1.03	1.04
5200	0.10	0.10	0.09	0.09	0.09	0.09	107.30	1.03	1.03	1.03	1.03	1.06	1.04	1.05
5400	0.10	0.10	0.10	0.09	0.10	0.09	116.56	1.04	1.03	1.04	1.04	1.07	1.05	1.06
5500	0.10	0.10	0.10	0.09	0.10	0.10	118.76	1.05	1.03	1.05	1.05	1.08	1.05	1.06
5600	0.11	0.10	0.10	0.09	0.10	0.10	108.61	1.05	1.04	1.05	1.05	1.08	1.06	1.06
5800	0.11	0.11	0.10	0.10	0.10	0.10	106.91	1.06	1.05	1.06	1.06	1.09	1.07	1.07
6000	0.11	0.11	0.10	0.10	0.11	0.10	109.45	1.07	1.06	1.07	1.07	1.11	1.08	1.09
6200	0.11	0.11	0.11	0.10	0.11	0.11	102.21	1.08	1.07	1.09	1.08	1.12	1.09	1.09
6400	0.12	0.12	0.11	0.11	0.11	0.11	117.85	1.09	1.08	1.10	1.09	1.13	1.10	1.10
6600	0.12	0.12	0.12	0.12	0.11	0.11	103.11	1.11	1.09	1.11	1.11	1.15	1.11	1.12
6800	0.13	0.13	0.12	0.12	0.12	0.12	110.48	1.12	1.10	1.12	1.12	1.16	1.13	1.13
7000	0.13	0.13	0.13	0.13	0.12	0.12	102.15	1.13	1.11	1.13	1.13	1.18	1.13	1.14
7200	0.13	0.13	0.14	0.14	0.13	0.13	101.77	1.14	1.12	1.14	1.14	1.18	1.14	1.15
7400	0.13	0.14	0.14	0.14	0.13	0.13	107.96	1.14	1.13	1.15	1.15	1.19	1.15	1.16
7500	0.14	0.14	0.14	0.14	0.13	0.13	96.47	1.15	1.13	1.15	1.16	1.20	1.15	1.16
7600	0.14	0.14	0.14	0.15	0.13	0.13	99.86	1.15	1.14	1.15	1.16	1.20	1.16	1.17
7800	0.14	0.14	0.15	0.15	0.14	0.14	111.36	1.16	1.14	1.16	1.17	1.21	1.16	1.17
8000	0.15	0.15	0.15	0.15	0.14	0.14	101.41	1.16	1.14	1.16	1.18	1.21	1.17	1.18
8200	0.15	0.15	0.15	0.15	0.14	0.14	103.77	1.16	1.15	1.16	1.18	1.21	1.17	1.18
8400	0.15	0.15	0.16	0.16	0.15	0.15	108.45	1.16	1.15	1.16	1.18	1.21	1.17	1.19
8600	0.15	0.15	0.15	0.15	0.15	0.15	99.85	1.16	1.15	1.15	1.18	1.21	1.17	1.19
8800	0.15	0.15	0.15	0.15	0.15	0.15	110.06	1.16	1.15	1.15	1.19	1.21	1.17	1.19
9000	0.16	0.15	0.16	0.16	0.15	0.15	101.34	1.15	1.15	1.14	1.18	1.21	1.17	1.19
9200	0.16	0.16	0.16	0.16	0.15	0.16	98.92	1.15	1.15	1.14	1.18	1.20	1.17	1.19
9400	0.16	0.16	0.16	0.16	0.16	0.16	97.60	1.15	1.15	1.13	1.18	1.20	1.17	1.19
9600	0.16	0.15	0.15	0.15	0.16	0.16	101.23	1.14	1.15	1.12	1.17	1.20	1.17	1.19
9800	0.16	0.15	0.15	0.15	0.16	0.16	104.22	1.14	1.14	1.12	1.17	1.19	1.17	1.19
10000	0.16	0.15	0.16	0.15	0.16	0.16	93.14	1.13	1.14	1.11	1.16	1.18	1.16	1.18
10200	0.16	0.15	0.16	0.15	0.15	0.16	93.55	1.13	1.14	1.10	1.15	1.18	1.16	1.18
10400	0.16	0.15	0.16	0.15	0.15	0.16	96.67	1.12	1.13	1.09	1.14	1.17	1.16	1.17
10600	0.16	0.15	0.16	0.15	0.15	0.16	97.75	1.12	1.13	1.08	1.14	1.16	1.16	1.17
10800	0.16	0.15	0.16	0.15	0.15	0.15	98.95	1.11	1.12	1.07	1.12	1.15	1.15	1.15
11000	0.16	0.16	0.16	0.15	0.15	0.15	91.84	1.10	1.11	1.06	1.11	1.14	1.14	1.14
11200	0.16	0.16	0.16	0.14	0.15	0.15	101.74	1.09	1.11	1.05	1.11	1.12	1.13	1.13
11400	0.16	0.16	0.15	0.14	0.15	0.15	97.34	1.08	1.10	1.04	1.09	1.11	1.12	1.11
11600	0.16	0.16	0.15	0.14	0.14	0.15	106.41	1.07	1.08	1.03	1.08	1.09	1.11	1.10
11800	0.16	0.16	0.16	0.14	0.15	0.15	97.70	1.06	1.06	1.01	1.06	1.07	1.10	1.08
12000	0.16	0.16	0.16	0.14	0.15	0.15	95.49	1.04	1.05	1.00	1.05	1.05	1.08	1.06
12200	0.16	0.16	0.16	0.14	0.14	0.15	97.61	1.03	1.03	1.02	1.04	1.03	1.06	1.04
12400	0.16	0.17	0.16	0.14	0.14	0.15	93.94	1.02	1.02	1.03	1.05	1.02	1.05	1.02
12600	0.17	0.17	0.17	0.14	0.14	0.15	98.49	1.02	1.02	1.05	1.06	1.03	1.05	1.03
12800	0.17	0.18	0.17	0.15	0.15	0.16	93.41	1.03	1.04	1.07	1.07	1.05	1.04	1.05
13000	0.18	0.19	0.18	0.15	0.16	0.17	91.68	1.05	1.06	1.09	1.09	1.07	1.05	1.08
13005	0.18	0.19	0.18	0.15	0.16	0.17	92.38	1.05	1.06	1.09	1.09	1.08	1.05	1.08
13400	0.20	0.21	0.21	0.17	0.17	0.19	90.48	1.09	1.11	1.14	1.14	1.12	1.10	1.13
13500	0.21	0.22	0.22	0.18	0.18	0.19	93.71	1.11	1.13	1.15	1.15	1.13	1.11	1.14
14000	0.25	0.25	0.26	0.20	0.21	0.22	91.98	1.19	1.21	1.24	1.22	1.20	1.18	1.21
14500	0.29	0.28	0.29	0.23	0.24	0.25	98.25	1.28	1.30	1.34	1.30	1.26	1.26	1.28
15000	0.32	0.33	0.32	0.26	0.27	0.27	99.05	1.39	1.38	1.46	1.38	1.33	1.35	1.34

Typical Performance Curves



Outline Dimensions

PF2018



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.

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: 1350 grams.
4. Marking may contain other features or characters for internal lot control.



P.O. Box 350166, Brooklyn, New York 11235-0003 (718) 934-4500 Fax (718) 332-4661 For detailed performance specs & shopping online see Mini-Circuits web site



The Design Engineers Search Engine Provides ACTUAL Data Instantly From MINI-CIRCUITS At: www.minicircuits.com

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