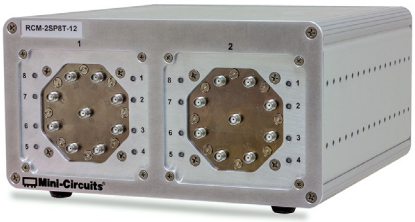
USB & ETHERNET CONTROLLED

RF SP8T Switch Matrix RCM-2SP8T-12

50Ω DC to 12 GHz

THE BIG DEAL

- Mechanical SP8T Absorptive Switches
- Excellent Performance to 12 GHz
- High Reliability, 5 Million Switch Cycles
- 20 W Power Rating (cold switching)



CASE STYLE: UV2068

DOWNLOAD SOFTWARE PACKAGE

Refer to our website for compliance methodologies and qualifications

CE UKCA

APPLICATIONS

- Automated Test Equipment
- Fail-safe / Redundancy Switching
- Switch Matrices

PRODUCT OVERVIEW

Mini-Circuits' RCM-2SP8T-12 comprises a pair of independently controlled, electro-mechanical SP8T switches. Each switch operates over a 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 typical lifetime of 5 million switching cycles, when used within the noted specifications.

The switch box is constructed in a compact, rugged metal case (8.25 x 8.25 x 4.25") with 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).

KEY FEATURES

Feature	Advantages
Dual Mechanical SP8T 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 2G, 3G, 4G, C / S / X bands 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. C
ECO-030260
RCM-2SP8T-12
MCL NY
260629

RF SP8T Switch Matrix RCM-2SP8T-12

50Ω DC to 12 GHz

ELECTRICAL SPECIFICATIONS AT +25 °C

Parameter	Conditions (GHz)	Min.	Typ.	Max.	Units
Frequency	-	DC	-	12	GHz
Insertion Loss	DC – 4 GHz	-	0.15	0.25	dB
	4 – 8 GHz	-	0.20	0.45	
	8 – 12 GHz	-	0.40	0.80	
Isolation (Inactive Paths)[1]	DC – 4 GHz	95	100	-	dB
	4 – 8 GHz	85	100	-	
	8 – 12 GHz	70	90	-	
Return Loss[2]	DC – 4 GHz	-	26	-	dB
	4 – 8 GHz	-	17	-	
	8 – 12 GHz	-	16	-	
Switching Time	-	-	25	-	ms
RF Input Power	Cold switching	-	-	20	W
	Hot switching[3]	-	-	0.1	
	Into internal termination[4]	-	-	1	
Switch Lifetime	-	-	5	-	million switching 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 1-8 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 1 W per port, 3 W total per switch

POWER-UP OPTIONS

Mode	Initial Switch Paths
Default	All switches power up in the default state (all ports disconnected)
Last State	All switches resume the previous state from the point of last power supply disconnection

All switches revert to the default state when the power supply is turned off or disconnected

SWITCH STATE TABLE (EACH SWITCH)

Switch Command	Switch x State
:SP8T:[x]:STATE:0	All ports disconnected (COM open; 1-8 terminated)
:SP8T:[x]:STATE:1	COM to 1
:SP8T:[x]:STATE:2	COM to 2
:SP8T:[x]:STATE:3	COM to 3
:SP8T:[x]:STATE:4	COM to 4
:SP8T:[x]:STATE:5	COM to 5
:SP8T:[x]:STATE:6	COM to 6
:SP8T:[x]:STATE:7	COM to 7
:SP8T:[x]:STATE:8	COM to 8

MAXIMUM RATINGS

Parameters	Ratings
Operating Temperature	0 °C to 40 °C
Storage Temperature	-15 °C to 85 °C

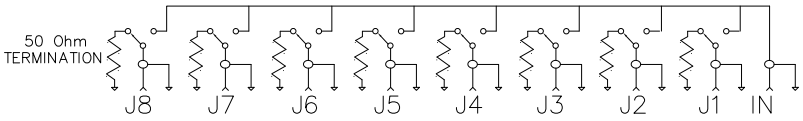
USB & ETHERNET CONTROLLED

RF SP8T Switch Matrix RCM-2SP8T-12

50Ω DC to 12 GHz

SWITCHING CONFIGURATION:

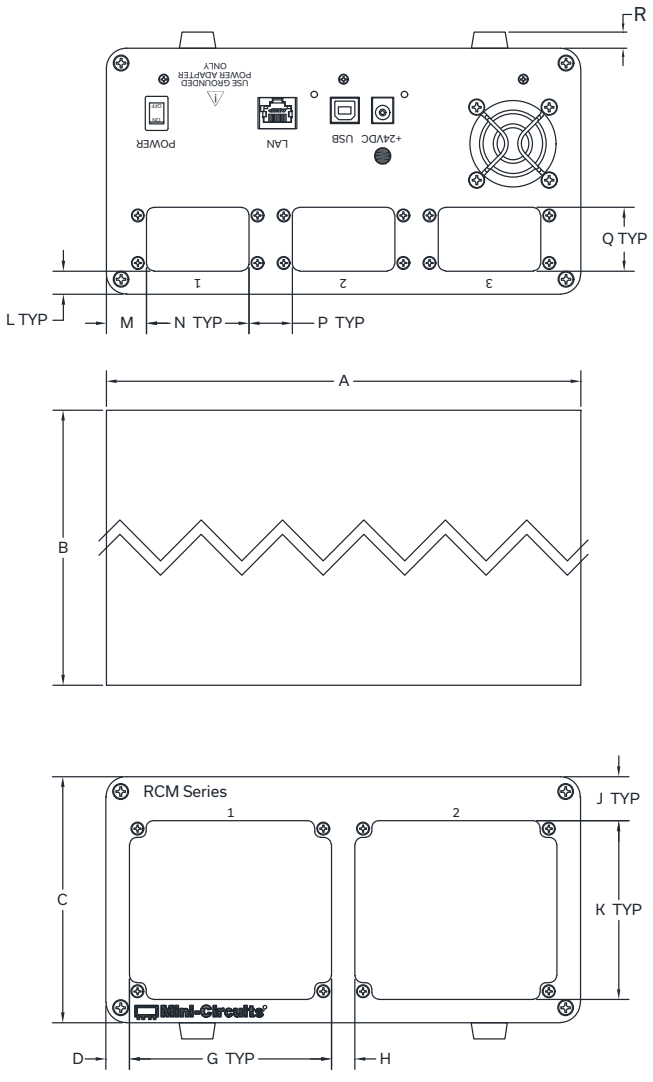
- Normally open (all port disconnected)
- Absorptive (internal terminations on ports J1-J8)



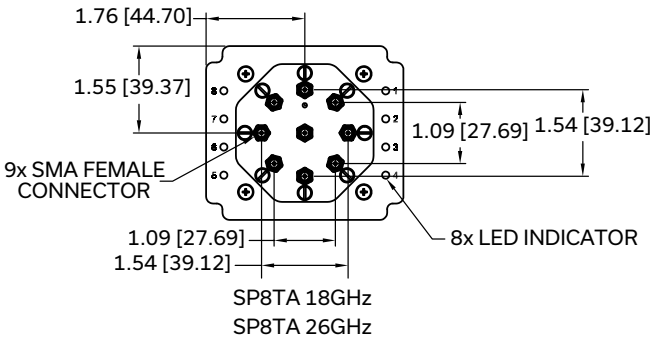
CONNECTIONS

Port Name	Connector Type
RF Switch 1 (COM & 1-8)	SMA female
RF Switch 2 (COM & 1-8)	SMA female
USB	USB type-B
Ethernet / LAN	RJ45
24V $_{DC}$ Input	2.1mm center positive DC socket

OUTLINE DRAWING (UV2068)



FRONT PANEL FOR RCM WITH SP8T SWITCHES



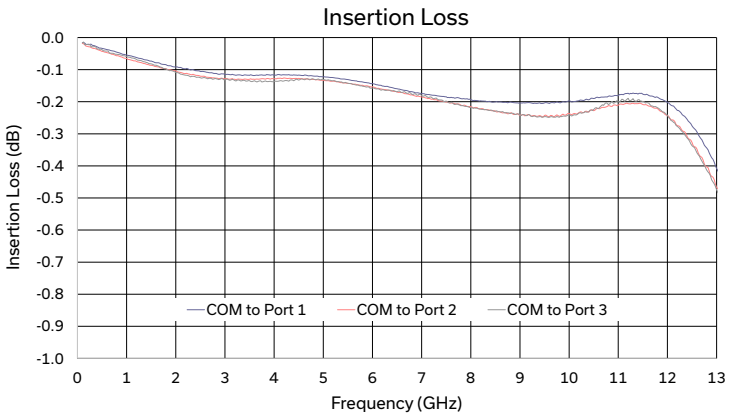
OUTLINE DIMENSIONS (Inches / mm)

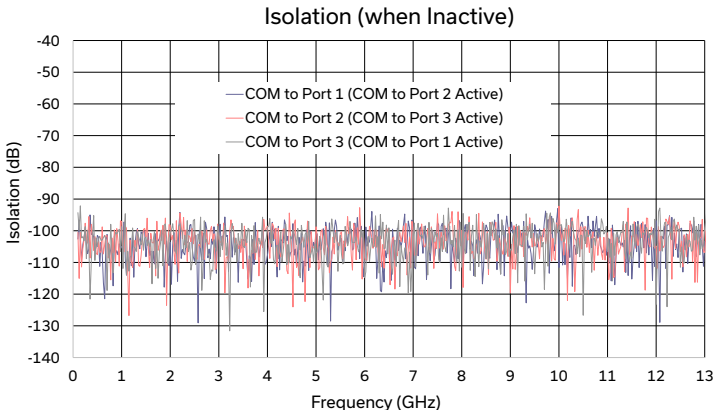
A	B	C	D	E	F	J	K	L	M	N	P	Q	R	wt
8.25	8.25	4.25	.41	2.36	.18	.76	3.09	.40	.70	1.78	.76	1.10	.28	grms
209.55	209.55	107.95	10.41	59.94	4.57	19.30	78.49	10.16	17.78	45.21	19.30	27.94	7.1	2350

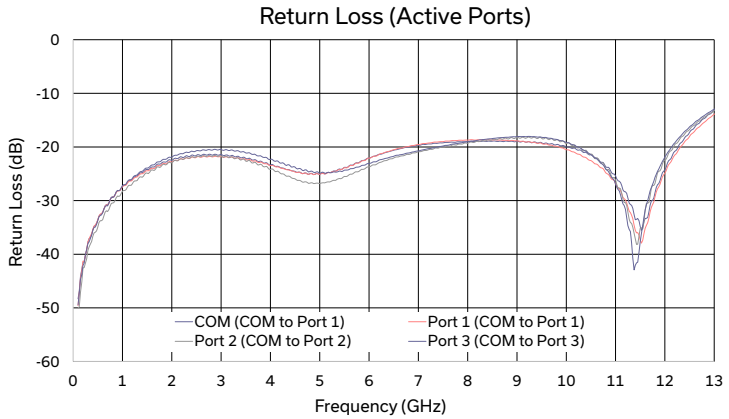
RF SP8T Switch Matrix RCM-2SP8T-12

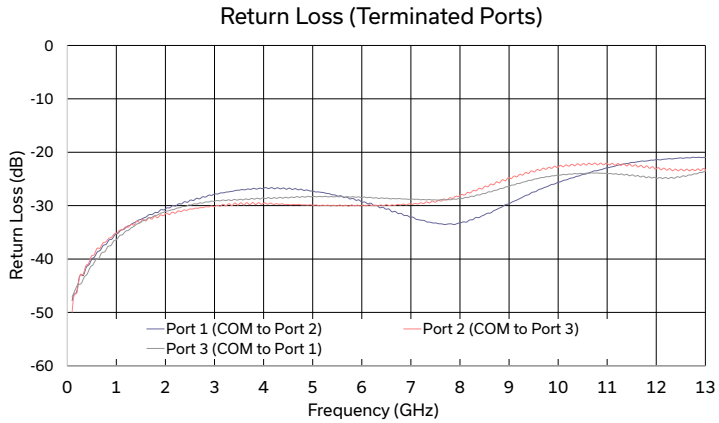
50Ω DC to 12 GHz

TYPICAL PERFORMANCE GRAPHS









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: www.minicircuits.com/softwaredownload/ztm_rcm.html
- Please contact testsolutions@minicircuits.com for support

MINIMUM SYSTEM REQUIREMENTS:

Parameter	Requirements	
Interface	USB HID & Ethernet (HTTP & Telnet)	
System Requirements	GUI	Windows 7 or later
	USB API DLL	Windows 7 or later and programming environment with ActiveX or .NET support
	USB Direct Programming	Linux, Windows 7 or later
	Ethernet	Windows, Linux or Mac computer with a network port and Ethernet TCP/IP support
Hardware	Intel i3 (or equivalent) or later	

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 suported environments)

USB SUPPORT (LINUX):

- Direct USB programming using a series of USB interrupt codes

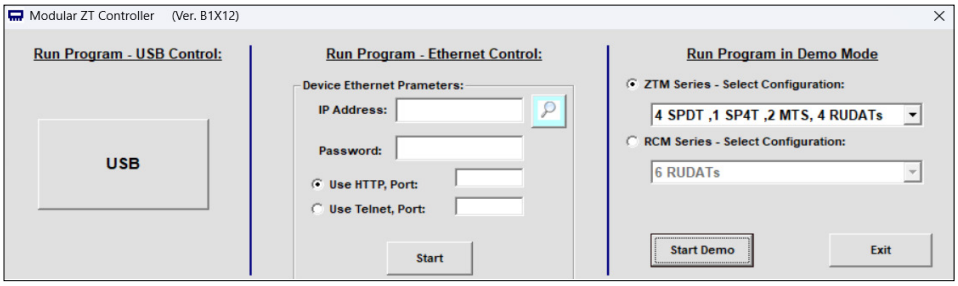
Full programming instructions and examples available for a wide range of programming environments / languages.

RF SP8T Switch Matrix RCM-2SP8T-12

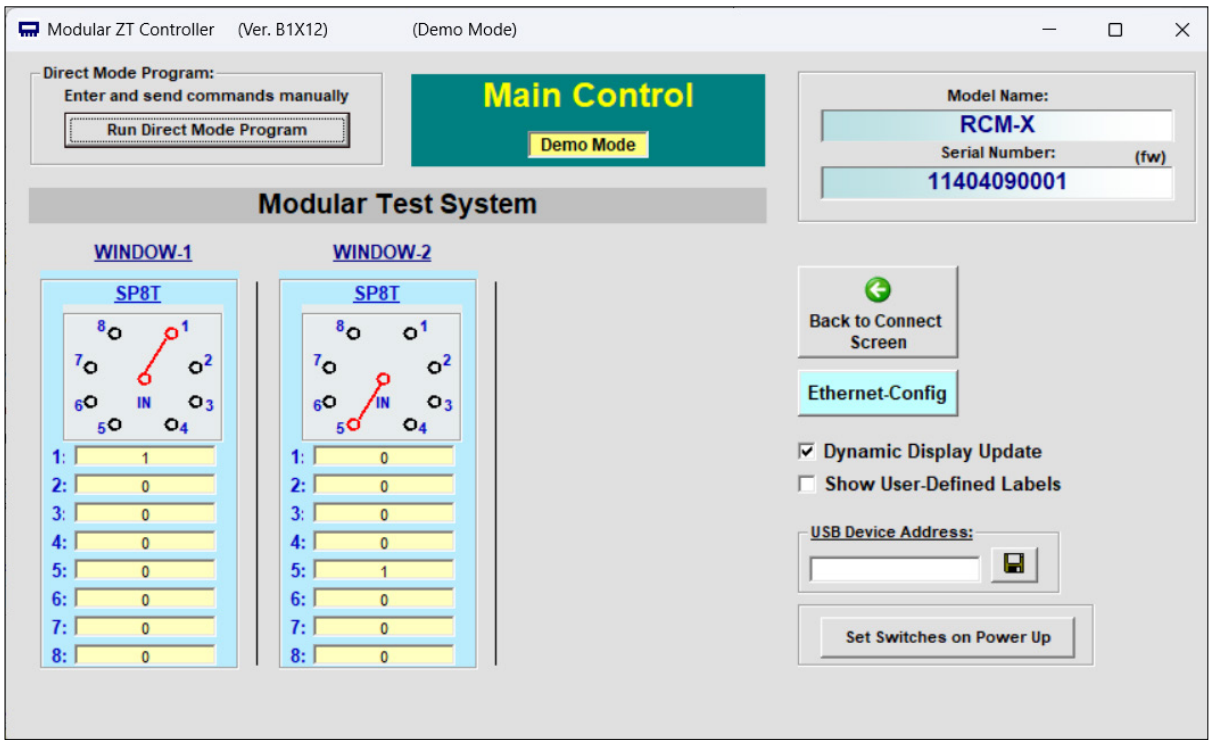
50Ω DC to 12 GHz

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 SP8T Switch Matrix RCM-2SP8T-12

50Ω DC to 12 GHz

ORDERING INFORMATION

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

Model	Description
RCM-2SP8T-12	USB & Ethernet controlled SP8T 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[5]	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

5. 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

NOTES

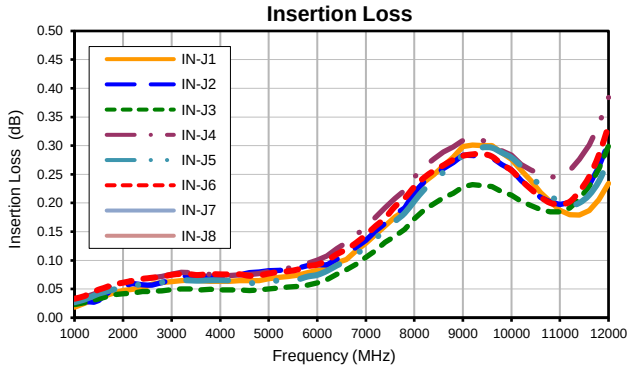
A. Performance and quality attributes and conditions not expressly stated in this specification document are intended to be excluded and do not form a part of this specification document.
B. Electrical specifications and performance data contained in this specification document are based on Mini-Circuits' 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

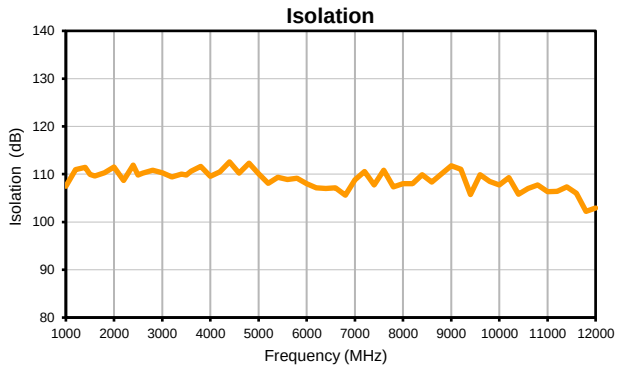
Typical Performance Data per Switch

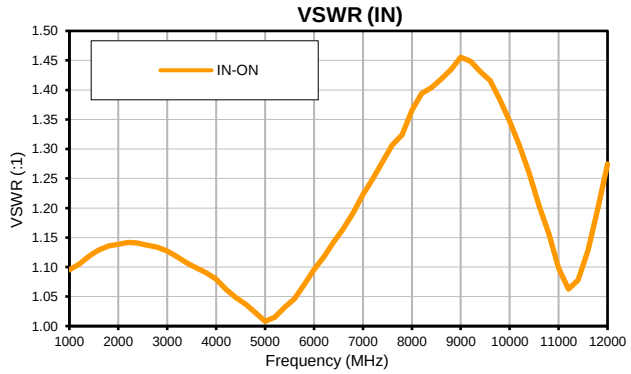
FREQUENCY	INSERTION LOSS (dB)								ISOLATON	VSWR (:1)								
(MHz)	IN-J1	IN-J2	IN-J3	IN-J4	IN-J5	IN-J6	IN-J7	IN-J8	(dB)	IN	J1-ON	J2-ON	J3-ON	J4-ON	J5-ON	J6-ON	J7-ON	J8-ON
1000	0.02	0.03	0.02	0.03	0.03	0.03	0.03	0.03	107.48	1.10	1.10	1.09	1.09	1.10	1.09	1.10	1.10	1.10
1200	0.03	0.03	0.03	0.04	0.03	0.04	0.04	0.04	110.98	1.11	1.11	1.10	1.10	1.12	1.11	1.12	1.11	1.11
1400	0.03	0.03	0.03	0.04	0.04	0.05	0.04	0.05	111.42	1.12	1.12	1.11	1.11	1.13	1.12	1.13	1.12	1.13
1500	0.03	0.03	0.03	0.04	0.04	0.05	0.05	0.05	109.98	1.12	1.13	1.12	1.11	1.14	1.13	1.14	1.13	1.14
1600	0.04	0.04	0.03	0.05	0.04	0.05	0.05	0.05	109.64	1.13	1.13	1.12	1.12	1.14	1.13	1.14	1.13	1.14
1800	0.04	0.05	0.04	0.06	0.05	0.06	0.05	0.06	110.27	1.14	1.14	1.13	1.12	1.15	1.14	1.15	1.14	1.15
2000	0.05	0.06	0.04	0.06	0.05	0.06	0.06	0.06	111.50	1.14	1.14	1.13	1.12	1.16	1.14	1.15	1.14	1.16
2200	0.05	0.06	0.04	0.06	0.06	0.06	0.06	0.07	108.69	1.14	1.15	1.13	1.12	1.16	1.15	1.16	1.14	1.16
2400	0.05	0.06	0.05	0.07	0.06	0.07	0.06	0.07	111.91	1.14	1.14	1.12	1.12	1.16	1.14	1.16	1.14	1.16
2500	0.06	0.06	0.05	0.07	0.06	0.07	0.06	0.07	109.85	1.14	1.14	1.12	1.12	1.16	1.14	1.15	1.14	1.16
2600	0.06	0.06	0.05	0.07	0.06	0.07	0.06	0.07	110.24	1.14	1.14	1.12	1.12	1.16	1.14	1.15	1.14	1.16
2800	0.06	0.06	0.05	0.07	0.06	0.07	0.07	0.07	110.80	1.13	1.13	1.12	1.11	1.15	1.14	1.14	1.13	1.15
3000	0.06	0.07	0.05	0.08	0.06	0.07	0.07	0.08	110.29	1.13	1.13	1.11	1.11	1.15	1.13	1.14	1.13	1.15
3200	0.06	0.07	0.05	0.08	0.07	0.08	0.07	0.08	109.41	1.12	1.12	1.10	1.10	1.14	1.12	1.12	1.12	1.13
3400	0.07	0.07	0.05	0.08	0.06	0.08	0.07	0.08	110.06	1.11	1.11	1.10	1.09	1.13	1.11	1.11	1.11	1.12
3500	0.06	0.07	0.05	0.08	0.06	0.07	0.07	0.08	109.82	1.10	1.10	1.09	1.09	1.12	1.10	1.10	1.10	1.11
3600	0.06	0.07	0.05	0.07	0.06	0.07	0.07	0.08	110.66	1.10	1.10	1.09	1.08	1.12	1.10	1.10	1.10	1.11
3800	0.06	0.07	0.05	0.08	0.07	0.08	0.07	0.08	111.63	1.09	1.09	1.08	1.08	1.11	1.09	1.09	1.09	1.10
4000	0.06	0.07	0.05	0.07	0.07	0.08	0.07	0.08	109.53	1.08	1.08	1.08	1.08	1.10	1.08	1.08	1.08	1.08
4200	0.06	0.07	0.05	0.07	0.06	0.08	0.07	0.08	110.51	1.06	1.06	1.07	1.07	1.08	1.07	1.06	1.07	1.07
4400	0.06	0.07	0.05	0.07	0.06	0.08	0.07	0.08	112.58	1.05	1.05	1.06	1.06	1.07	1.06	1.05	1.05	1.06
4600	0.06	0.08	0.05	0.08	0.06	0.07	0.07	0.07	110.24	1.04	1.04	1.05	1.05	1.06	1.05	1.04	1.04	1.05
4800	0.06	0.08	0.05	0.08	0.06	0.07	0.07	0.08	112.34	1.02	1.03	1.04	1.04	1.05	1.04	1.03	1.03	1.04
5000	0.07	0.08	0.05	0.08	0.06	0.08	0.07	0.08	110.09	1.01	1.02	1.03	1.02	1.04	1.03	1.02	1.02	1.04
5200	0.07	0.08	0.05	0.08	0.06	0.08	0.08	0.08	108.12	1.01	1.02	1.02	1.01	1.03	1.02	1.02	1.02	1.04
5400	0.07	0.08	0.05	0.09	0.07	0.08	0.08	0.09	109.34	1.03	1.02	1.01	1.01	1.04	1.01	1.02	1.03	1.05
5600	0.07	0.09	0.05	0.09	0.07	0.08	0.09	0.09	108.92	1.05	1.03	1.01	1.02	1.05	1.03	1.04	1.05	1.06
5800	0.08	0.09	0.06	0.09	0.07	0.09	0.09	0.10	109.17	1.07	1.05	1.03	1.04	1.07	1.05	1.06	1.07	1.09
6000	0.08	0.09	0.06	0.10	0.07	0.09	0.10	0.10	108.03	1.10	1.07	1.05	1.06	1.08	1.05	1.07	1.08	1.09
6200	0.09	0.09	0.07	0.11	0.08	0.10	0.11	0.11	107.14	1.12	1.09	1.07	1.08	1.10	1.08	1.08	1.10	1.10
6400	0.10	0.10	0.08	0.12	0.09	0.11	0.12	0.12	107.01	1.14	1.11	1.09	1.10	1.13	1.10	1.11	1.13	1.13
6600	0.10	0.11	0.08	0.13	0.10	0.12	0.13	0.13	107.13	1.16	1.13	1.11	1.12	1.15	1.12	1.13	1.15	1.14
6800	0.12	0.12	0.09	0.14	0.11	0.13	0.14	0.14	105.61	1.19	1.16	1.14	1.15	1.17	1.14	1.15	1.18	1.16
7000	0.13	0.13	0.11	0.16	0.12	0.14	0.16	0.16	108.84	1.22	1.19	1.17	1.17	1.20	1.17	1.18	1.20	1.18
7200	0.14	0.15	0.12	0.17	0.14	0.16	0.17	0.17	110.59	1.25	1.22	1.20	1.20	1.23	1.20	1.21	1.23	1.20
7400	0.16	0.16	0.13	0.19	0.15	0.17	0.19	0.19	107.75	1.28	1.25	1.23	1.23	1.26	1.23	1.23	1.26	1.22
7600	0.18	0.18	0.14	0.21	0.17	0.19	0.20	0.20	110.81	1.31	1.29	1.27	1.26	1.30	1.27	1.27	1.29	1.25
7800	0.19	0.19	0.15	0.22	0.18	0.21	0.22	0.21	107.35	1.32	1.30	1.28	1.27	1.32	1.28	1.29	1.30	1.26
8000	0.22	0.22	0.17	0.25	0.20	0.23	0.24	0.23	108.00	1.37	1.35	1.33	1.31	1.36	1.33	1.33	1.34	1.29
8200	0.24	0.24	0.19	0.26	0.22	0.24	0.26	0.25	108.02	1.39	1.39	1.36	1.34	1.39	1.36	1.36	1.36	1.32
8400	0.25	0.25	0.20	0.28	0.24	0.26	0.27	0.26	109.90	1.40	1.40	1.38	1.35	1.41	1.38	1.38	1.37	1.33
8600	0.26	0.26	0.21	0.29	0.25	0.27	0.29	0.27	108.33	1.42	1.42	1.39	1.36	1.43	1.41	1.40	1.39	1.35
8800	0.28	0.27	0.22	0.30	0.27	0.28	0.29	0.28	110.13	1.43	1.45	1.42	1.38	1.45	1.44	1.43	1.39	1.36
9000	0.30	0.28	0.23	0.31	0.28	0.28	0.30	0.29	111.76	1.46	1.47	1.43	1.39	1.46	1.45	1.43	1.40	1.37
9200	0.30	0.28	0.23	0.31	0.29	0.28	0.31	0.29	111.03	1.45	1.47	1.44	1.38	1.46	1.46	1.44	1.39	1.37
9400	0.30	0.28	0.23	0.31	0.30	0.29	0.30	0.29	105.75	1.43	1.47	1.43	1.37	1.45	1.47	1.44	1.38	1.37
9600	0.30	0.28	0.23	0.31	0.30	0.28	0.28	0.28	109.87	1.42	1.46	1.42	1.35	1.43	1.46	1.43	1.36	1.36
9800	0.29	0.27	0.22	0.29	0.29	0.27	0.27	0.26	108.52	1.38	1.44	1.40	1.33	1.41	1.45	1.41	1.34	1.34
10000	0.28	0.26	0.21	0.28	0.28	0.26	0.26	0.25	107.73	1.35	1.41	1.37	1.30	1.37	1.42	1.37	1.30	1.31
10200	0.26	0.24	0.20	0.27	0.26	0.24	0.25	0.24	109.27	1.31	1.38	1.34	1.27	1.33	1.39	1.35	1.27	1.28
10400	0.24	0.22	0.20	0.26	0.25	0.22	0.24	0.23	105.84	1.26	1.33	1.29	1.23	1.28	1.34	1.29	1.23	1.23
10600	0.22	0.21	0.19	0.25	0.23	0.21	0.24	0.22	107.01	1.20	1.28	1.25	1.19	1.24	1.31	1.24	1.20	1.19
10800	0.20	0.20	0.18	0.24	0.21	0.20	0.24	0.21	107.76	1.16	1.22	1.20	1.16	1.19	1.25	1.18	1.18	1.13
11000	0.19	0.20	0.18	0.25	0.20	0.20	0.24	0.21	106.34	1.10	1.16	1.16	1.14	1.16	1.21	1.15	1.18	1.08
11200	0.18	0.20	0.19	0.26	0.20	0.20	0.25	0.21	106.41	1.06	1.11	1.14	1.14	1.15	1.17	1.12	1.18	1.06
11400	0.18	0.21	0.21	0.28	0.20	0.22	0.27	0.23	107.38	1.08	1.10	1.15	1.18	1.18	1.17	1.16	1.23	1.10
11600	0.19	0.23	0.23	0.30	0.21	0.25	0.30	0.25	106.02	1.13	1.13	1.19	1.23	1.22	1.21	1.22	1.27	1.17
11800	0.21	0.26	0.26	0.34	0.24	0.28	0.32	0.28	102.22	1.20	1.20	1.25	1.30	1.29	1.27	1.30	1.34	1.26
12000	0.23	0.31	0.30	0.38	0.27	0.33	0.36	0.32	102.96	1.27	1.27	1.33	1.37	1.37	1.35	1.40	1.40	1.35

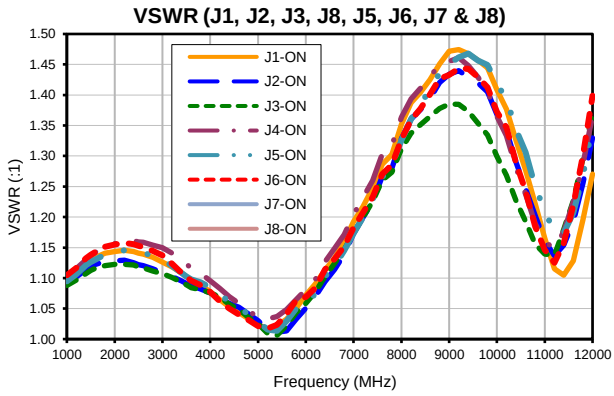
USB & Ethernet Controlled RF SP8T Switch Matrix RCM-2SP8T-12

Typical Performance Data per Switch





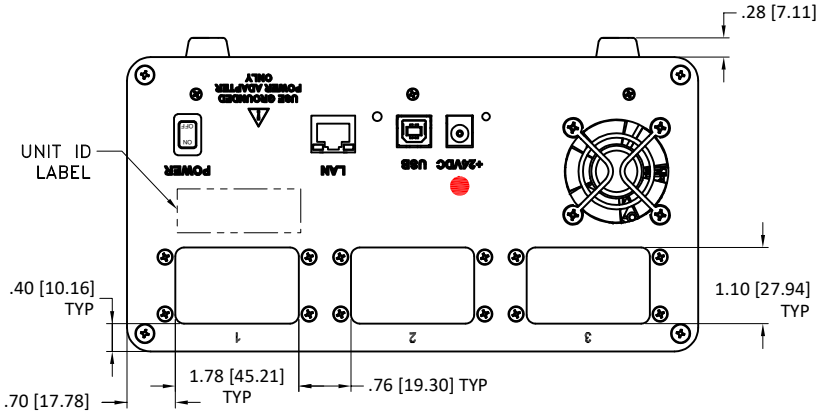


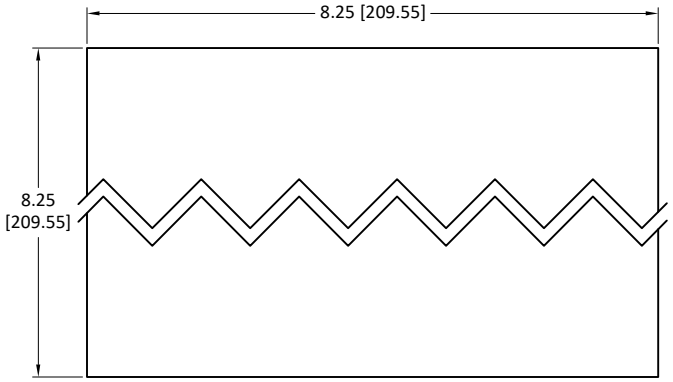


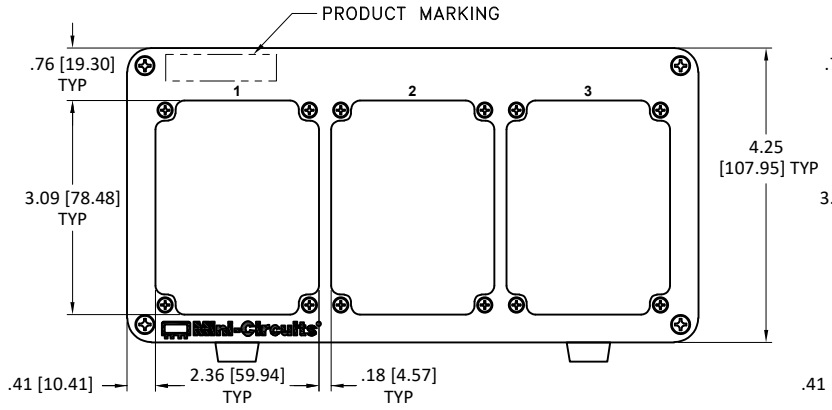
Case Style UV

Outline Dimensions

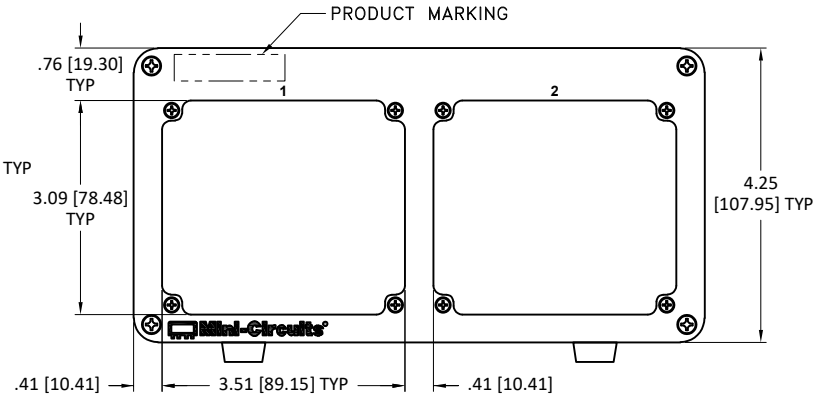
UV2068







FRONT PANEL FOR RCM WITH RUDAT, SPDT, SP4T, SP6T & MTS SWITCHES



FRONT PANEL FOR RCM WITH SP8T SWITCHES

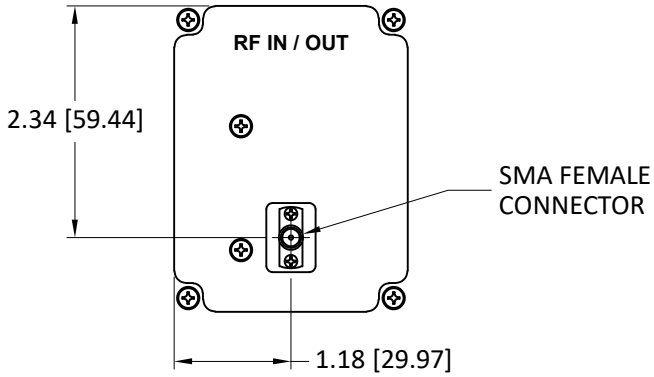
Notes:

1. Case material: Aluminum alloy.
2. Finish: Clear chemical conversion coating
3. Dimensions are in inches [mm]. Tolerances: 2 Pl. ±.03 inch; 3 Pl. ±.015 inch
4. Weight: 2350 grams.
5. Marking may contain other features or characters for internal lot control.

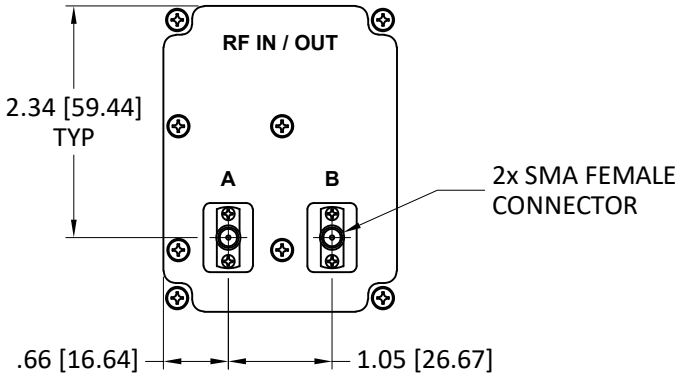
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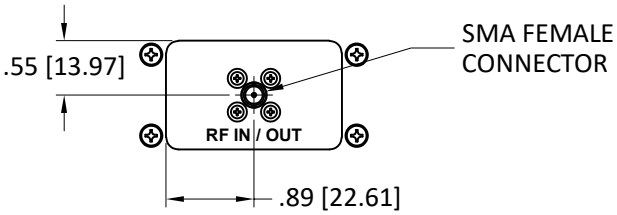
UV2068



FRONT PANEL

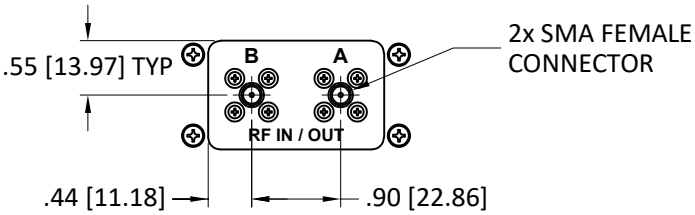


FRONT PANEL



REAR PANEL

SINGLE RUDAT



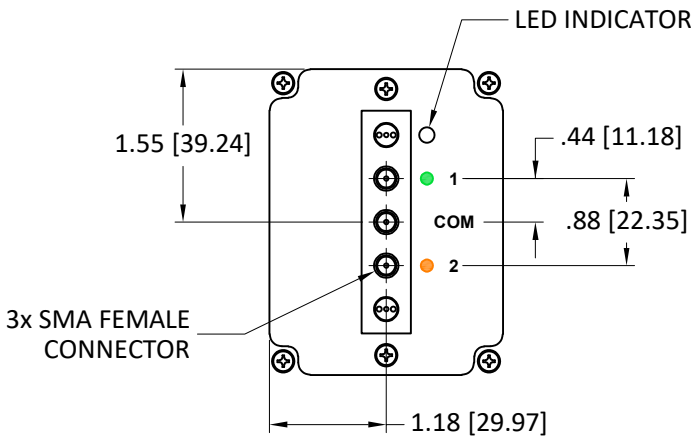
REAR PANEL

DUAL RUDAT

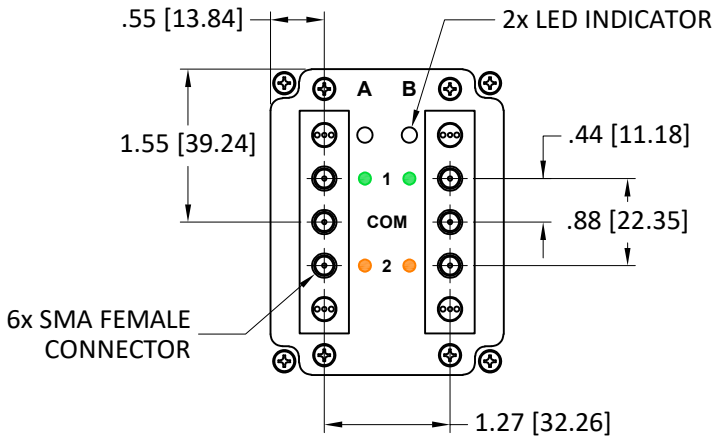
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RF/IF MICROWAVE COMPONENTS

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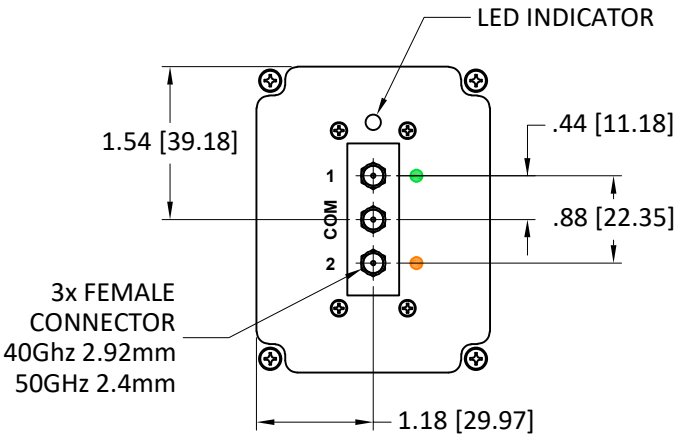
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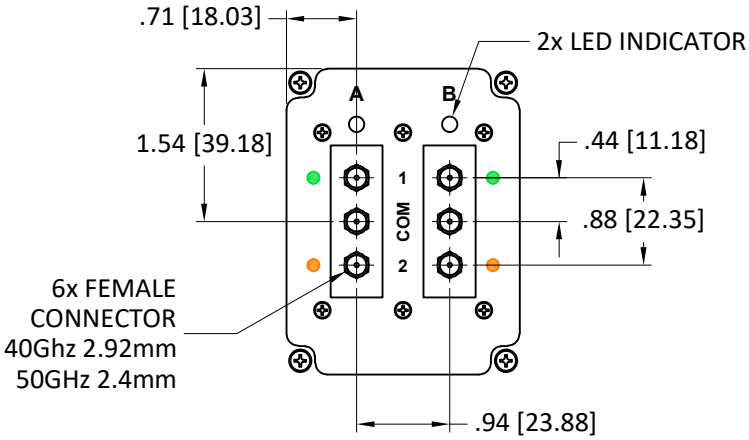
SPDTA 18GHz
SPDTA 26GHz



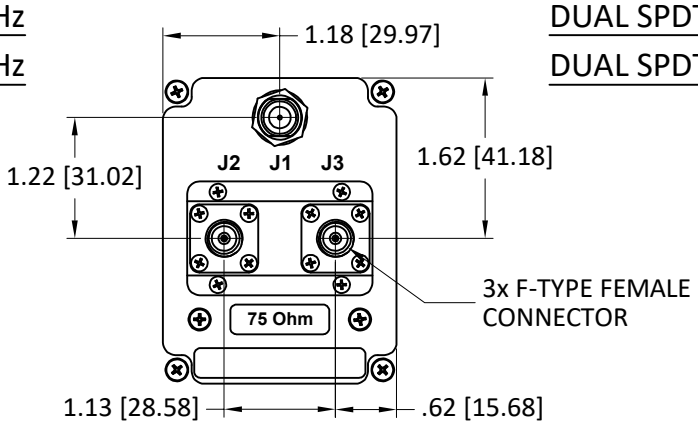
DUAL SPDTA 18GHz
DUAL SPDTA 26GHz



SPDT 40GHz
SPDT 50GHz



DUAL SPDT 40GHz
DUAL SPDT 50GHz

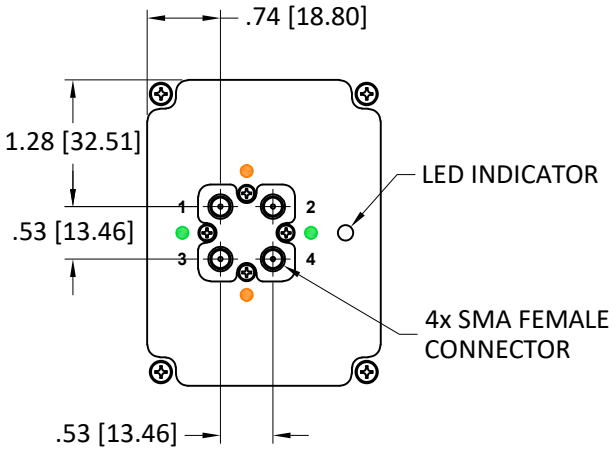


SPDT 2.15GHz

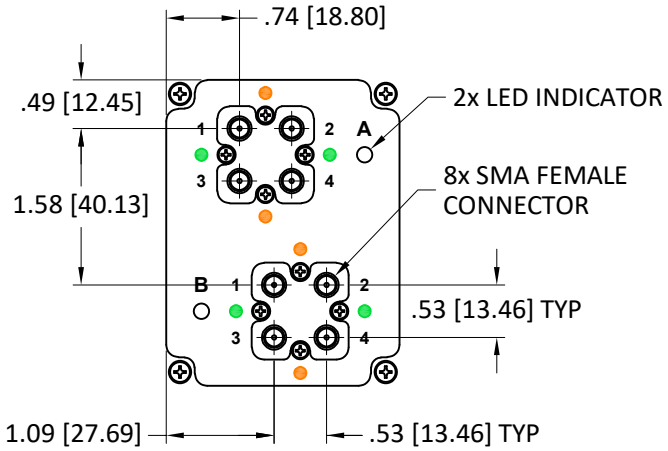
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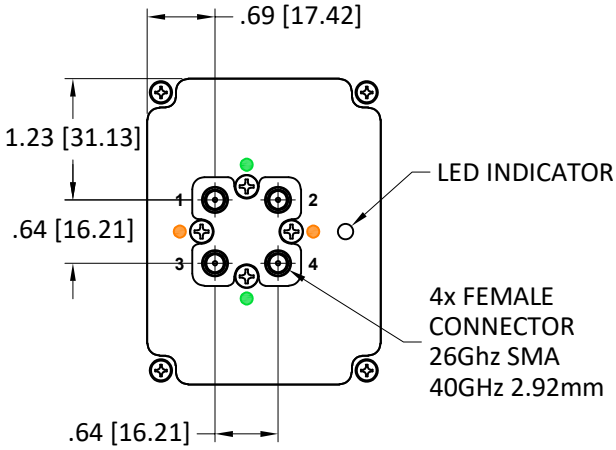
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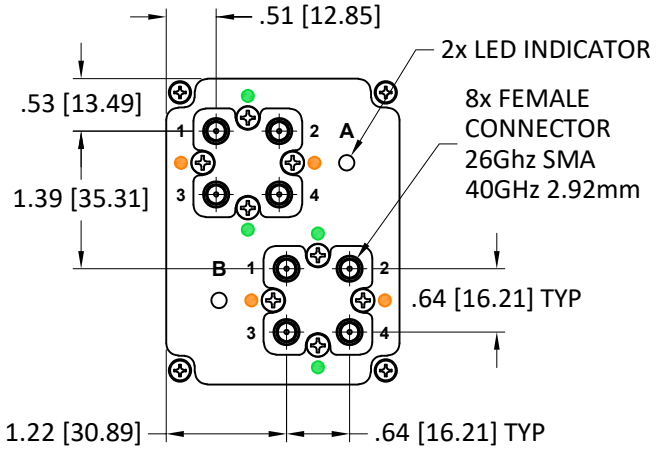
MTS 18GHz



DUAL MTS 18GHz



MTS 26GHz
MTS 40GHz

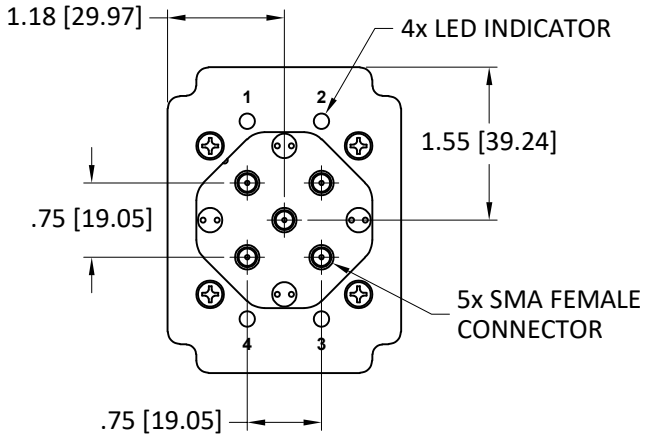


DUAL MTS 26GHz
DUAL MTS 40GHz

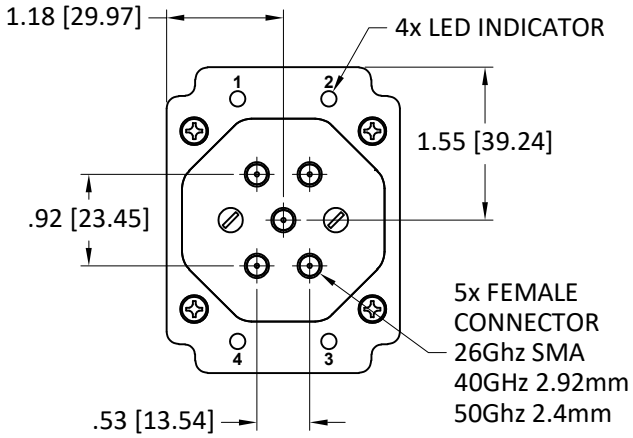
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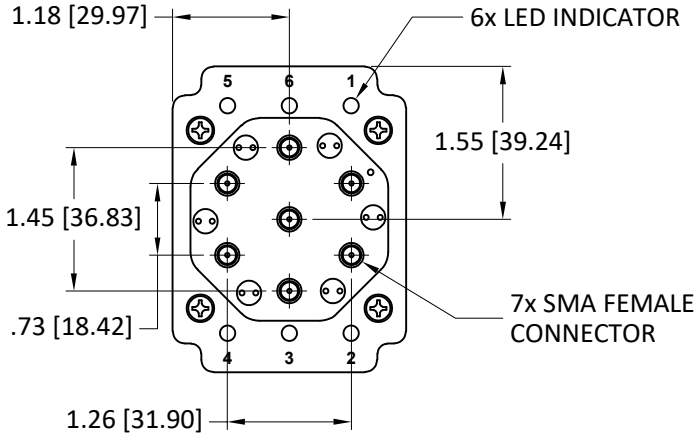
UV2068



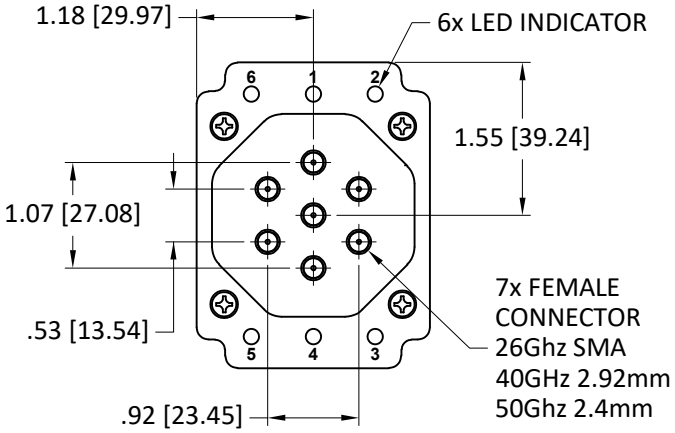
SP4TA 18GHz



SP4TA 26GHz
SP4TA 40GHz
SP4TA 50GHz



SP6TA 12GHz
SP6TA 18GHz

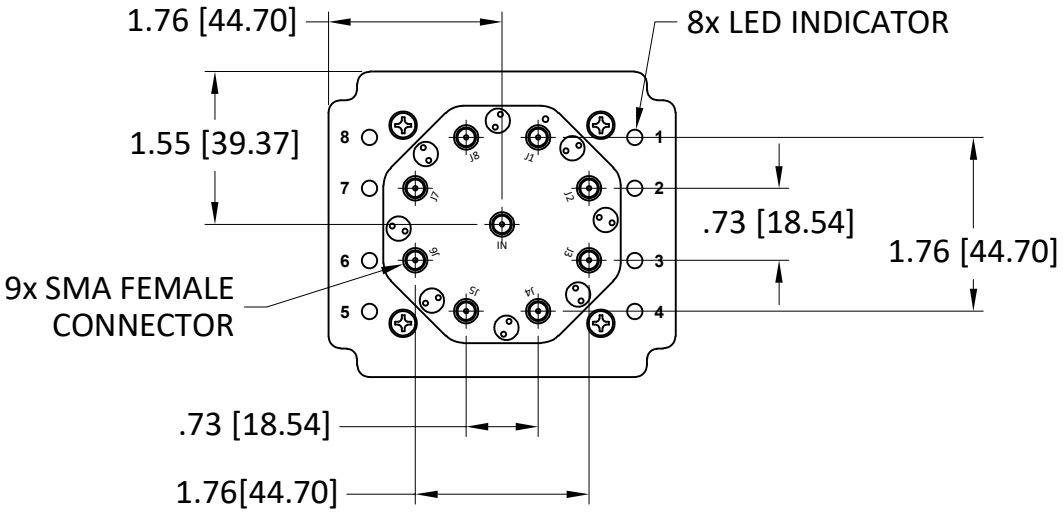


SP6TA 26GHz
SP6TA 40GHz
SP6TA 50GHz

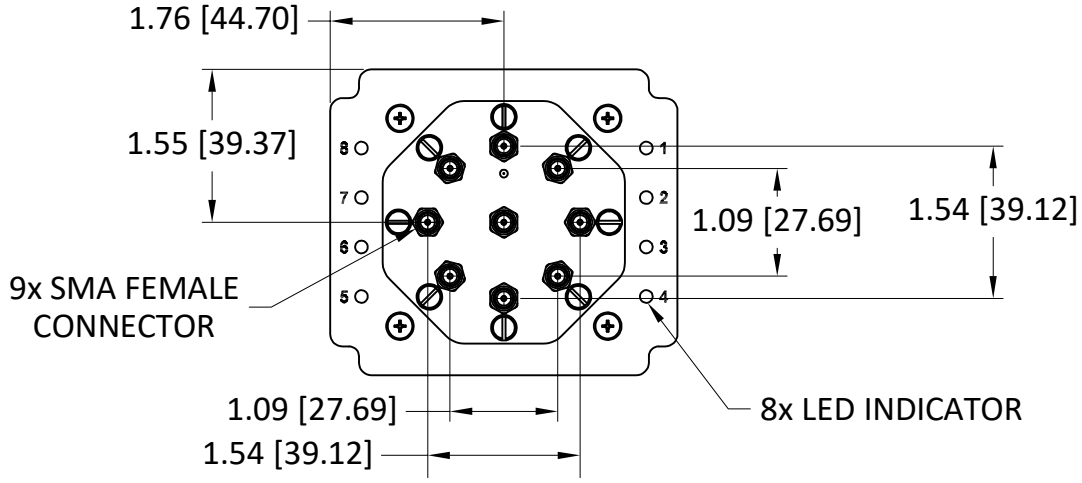
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SP8TA 12GHz



SP8TA 18GHz

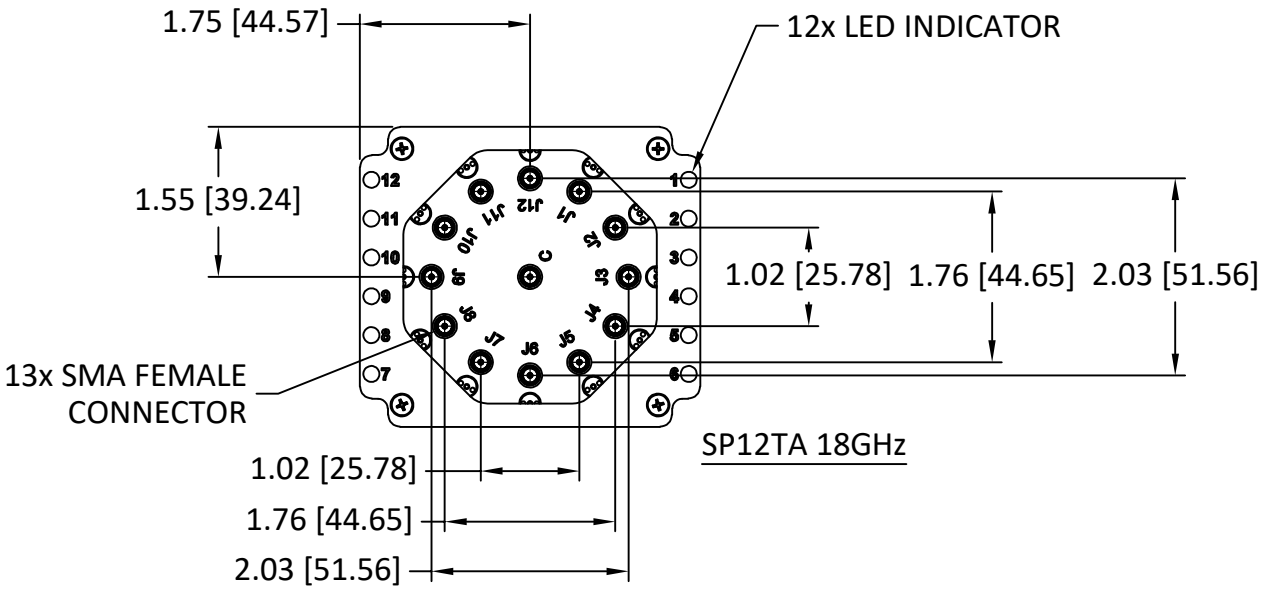
SP8TA 26GHz

SP8TA 40GHz

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Environmental Specifications **ENV56**

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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