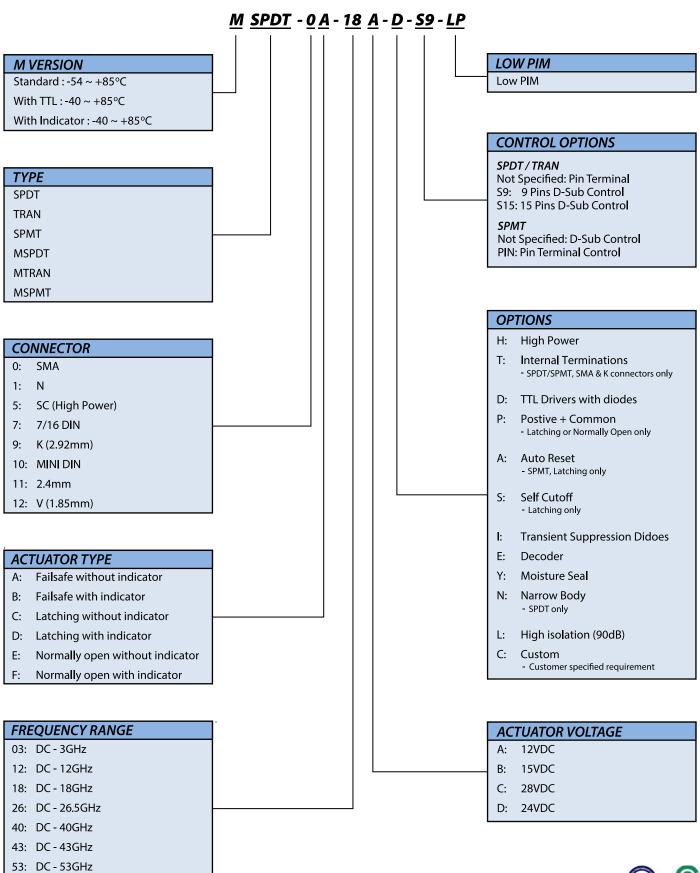






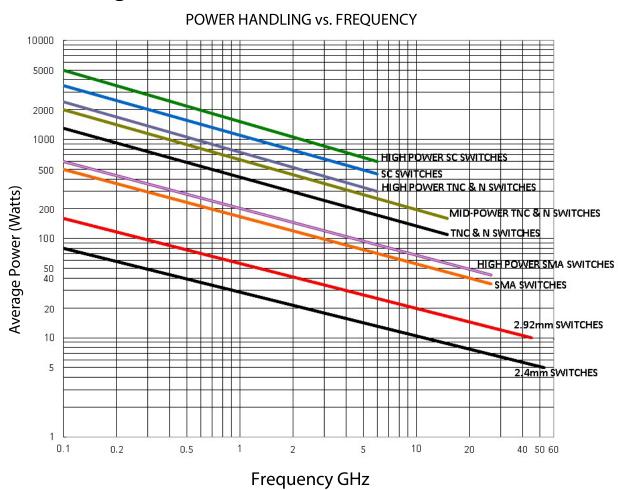
Example: SPDT-0A-18A-D-S9



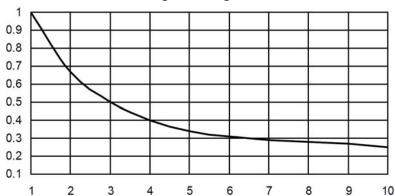
67: DC - 67GHz



Power Handling







Power handling chart base on the following reference conditions:

- Ambient temperature of 40°C or less
- Sea level operation
- Load VSWR of 1.20:1 Maximum
- No high-power (hot) switching

Please contact EPX Microwave for testing factors when applications do not meet the foregoing reference conditions.







Single - Pole - Double - Throw (SPDT)

Failsafe/Latching - SMA/K/2.4mm - DC to 53 GHz



The Single Pole Double Throw (SPDT) switch is used to switch a microwave signal from a common input to either of the two outputs. Latching and Failsafe switching actuator versions are available.

A wide selection of connectors and features are available to meet most requirements. Others options include position of indicator contacts, TTL drivers. See Model Numbering System for other options.

High reliability and low loss performance makes these switches ideal for testing and end product applications. Good low to medium power handling.

M series SPDT switches with higher temperature range is available for environments where additional shock, vibration, and humidity tolerance is required. Please visit EPX website or contact factory for details.

Specifications

SMA Connector - 18GHz / 26.5GHz

Frequency (GHz)	DC-6	6 - 12	12 - 18	18 - 26.5
Ins. Loss dB (max)	0.20	0.25/0.40	0.40/0.50	0.60
Isolation dB (min)	80/70	70/60	65/60	50
VSWR (max)	1.20:1	1.30:1	1.40:1	1.70:1

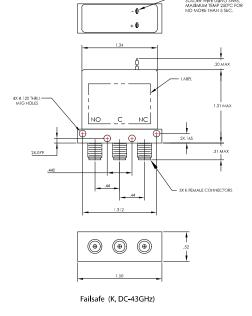
K 2.92mm Connector - 43GHz

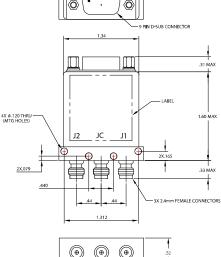
Frequency (GHz)	DC-6	6 - 12	12 - 18	18 - 26.5	26.5 - 40	40 - 43
Ins. Loss dB (max)	0.20	0.30	0.40	0.50	0.70	1.20
Isolation dB (min)	85	80	80	75	60	40
VSWR (max)	1.15:1	1.35:1	1.40:1	1.45:1	1.50 :1	1.90:1

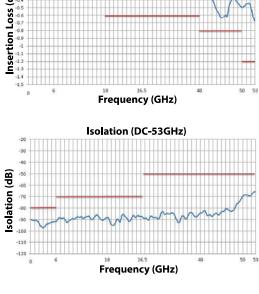
2.4mm Connector - 53GHz

Frequency (GHz)	DC-6	6-18	18 - 26.5	26.5 - 40	40 - 50	50 - 53
Ins. Loss dB (max)	0.20	0.30	0.60	0.60	0.80	1.20
Isolation dB (min)	80	70	70	70	50	50
VSWR (max)	1.20:1	1.30:1	1.60:1	1.60:1	1.80:1	2.20:1

Outline







-- RF DATA --

SPDT 2.4mm DC-53GHz

VSWR (DC-53GHz)

Frequency (GHz)

Insertion Loss (DC-53GHz)

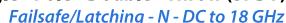




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Latching (2.4mm, DC-53GHz, D-Sub Control)









The Single Pole Double Throw (SPDT) switch is used to switch a microwave signal from a common input to either of the two outputs. Latching and Failsafe switching actuator versions are available.

A wide selection of connectors and features are available to meet most requirements. Others options include position of indicator contacts, TTL drivers. See Model Numbering System for other options.

High reliability and low loss performance makes these switches ideal for testing and end product applications. Good low to medium power handling.

M series SPDT switches with higher temperature range is available for environments where additional shock, vibration, and humidity tolerance is required. Please visit EPX website or contact factory for details.

Specifications

N Connector - 12GHz

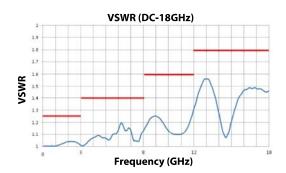
Frequency (GHz)	DC - 1	1 - 4	4-8	8 - 12
Ins. Loss dB (max)	0.30	0.40	0.40	0.50
Isolation dB (min)	90	80	70	60
VSWR (max)	1.25:1	1.30:1	1.40:1	1.40:1

N Connector - 18GHz

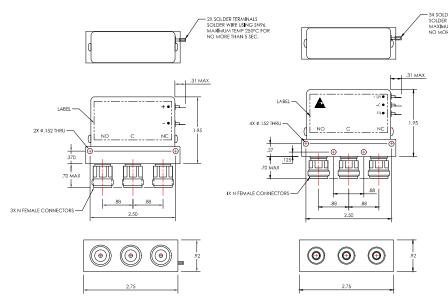
Frequency (GHz)	DC-3	3 - 8	8 - 12	12 - 18
Ins. Loss dB (max)	0.30	0.40	0.50	0.80
Isolation dB (min)	80	70	65	60
VSWR (max)	1.25:1	1.40:1	1.60:1	1.80:1

-- RF DATA --

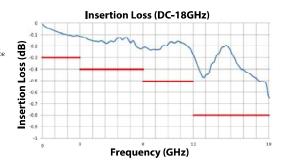
SPDT N DC-18GHz

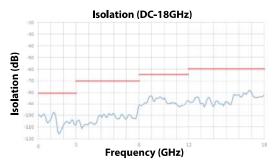


Outline



Failsafe (N, DC-12GHz) Failsafe (N, DC-18GHz with TTL Driver)











Double - Pole - Double - Throw (TRAN)

Failsafe/Latching - SMA/K/2.4mm - DC to 52 GHz

The Transfer (TRAN) is a four port switch with two independment pairs of RF pats. These pairs are actuated simultaneously. This actuation is similar to that of a double-pole-double-throw switch. Failsafe and latching switching actuator versions are available.

A wide selection of connectors and features are available to meet most requirements. Others options include position of indicator contacts, TTL drivers. See Model Numbering System for other options.

High reliability and low loss performance makes these switches ideal for testing and end product applications. Good low to medium power handling.

M series TRAN switches with higher temperature range is available for environments where additional shock, vibration, and humidity tolerance is required. Please visit EPX website or contact factory for details.

Specifications

VOLTAGE: 24VDC

LOT NO. EL-00238

D/C 2102

SMA Connector - 18GHz / 26.5GHz

Frequency (GHz)	DC-6	6 - 12	12 - 18	18 - 26.5
Ins. Loss dB (max)	0.20	0.30	0.50	0.80
Isolation dB (min)	70/80	60/70	60/65	60
VSWR (max)	1.20:1	1.30:1	1.40:1	1.60:1

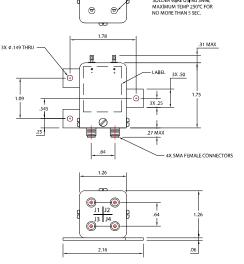
K 2.92mm Connector - 43GHz

Frequency (GHz)	DC-6	6 - 12	12 - 26.5	26.5 - 40	40 - 43
Ins. Loss dB (max)	0.20	0.40	0.70	1.00	1.30
Isolation dB (min)	80	75	65	50	50
VSWR (max)	1.20:1	1.30:1	1.40:1	1.80:1	2.00:1

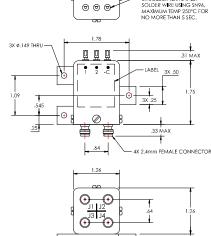
2.4mm Connector - 52GHz

Frequency (GHz)	DC-6	6-12	12 - 18	18 - 26.5	26.5 - 40	40 - 50	50 - 52
Ins. Loss dB (max)	0.30	0.40	0.50	0.70	1.00	1.30	2.30
Isolation dB (min)	70	60	60	55	50	50	50
VSWR (max)	1.30:1	1.40:1	1.50:1	1.70:1	1.90:1	2.20:1	2.80:1

Outline



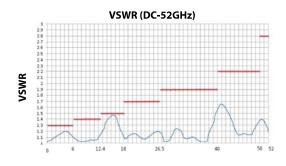
Failsafe (SMA, DC-18GHz)

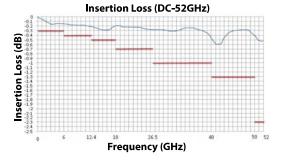


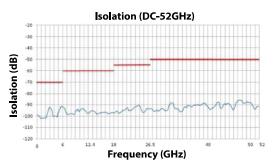
Latching (2.4mm, DC-52GHz)

-- RF DATA --

TRAN 2.4mm DC-52GHz











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Double - Pole - Double - Throw (TRAN)

Failsafe/Latching - N - DC to 18 GHz



The Transfer (TRAN) is a four port switch with two independent pairs of RF paths. These pairs are actuated simultaneously. This actuation is similar to that of a double-pole-double-throw switch. Failsafe and latching switching actuator versions are available.

A wide selection of connectors and features are available to meet most requirements. Other options include position of indicator contacts, TTL drivers. See Model Numbering System for other options.

High reliability and low loss performance makes these switches ideal for testing and end product applications. Good low to medium power handling.

M series TRAN switches with higher temperature range is available for environments where additional shock, vibration, and humidity tolerance is required. Please visit EPX website or contact factory for details.

Specifications

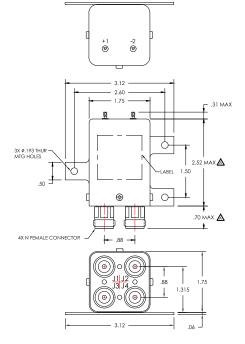
N Connector - 12GHz

Frequency (GHz)	DC - 1	1 - 4	4-12
Ins. Loss dB (max)	0.20	0.30	0.70
Isolation dB (min)	70	70	60
VSWR (max)	1.25:1	1.30:1	1.70:1

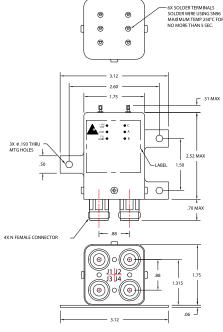
N Connector - 18GHz

Frequency (GHz)	DC-3	3 - 8	8 - 12	12 - 18
Ins. Loss dB (max)	0.30	0.40	0.50	0.80
Isolation dB (min)	80	70	65	60
VSWR (max)	1.25:1	1.40:1	1.50:1	1.80:1

Outline

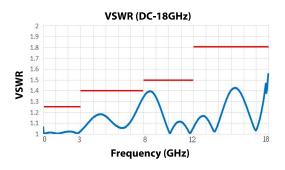


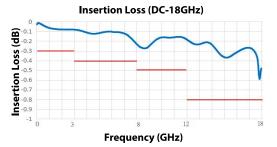
Failsafe (N, DC-12GHz)

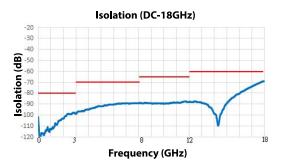


Failsafe (N, DC-8GHz with Indicator and TTL Driver)

-- RF DATA --TRAN N DC-18GHz











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Single - Pole - Multi - Throw (SP3T - SP6T)

Normally Open/Latching - SMA/K/2.4mm - DC to 52 GHz



The Single Pole Multi Throw (SP3T-SP6T) switch is a coaxial switch designed to switch a microwave signal from a common input to multiple outputs. The invdividual actuator mechanism allows random position selection. Normally open and latching actuator versions are available.

A wide selection of connectors and features are available to meet most requirements. Others options include position of indicator contacts, TTL drivers. See Model Numbering System for other options.

High reliability and low loss performance makes these switches ideal for testing and end product applications. Good low to medium power handling.

M series SPMT switches with higher temperature range is available for environments where additional shock, vibration, and humidity tolerance is required. Please visit EPX website or contact factory for details.

Specifications

SMA Connector - 18GHz / 26.5GHz

Frequency (GHz)	DC-6	6 - 12	12 - 18	18 - 26.5
Ins. Loss dB (max)	0.20	0.40	0.50	0.80
Isolation dB (min)	80/70	75/60	70/60	50
VSWR (max)	1.25:1	1.40:1	1.50:1	1.80:1

K 2.92mm Connector - 43GHz (with / without Termination)

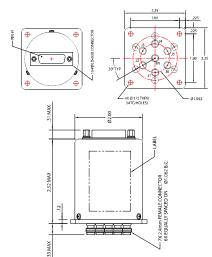
Frequency (GHz)	DC-6	6 - 12	12 - 18	18 - 26.5	26.5 - 32	32 - 40	40 - 43
Ins. Loss dB (max)	0.20	0.30/0.40	0.60/0.50	0.80/0.90	0.80/1.00	1.10/1.30	1.60
Isolation dB (min)	80/70	75/60	70/60	70/60	60	60/50	40
VSWR (max)	1.15/1.25:1	1.25/1.40:1	1.35/1.50:1	1.50/1.80:1	1.70/1.80:1	1.80:1	2.10:1

2.4mm Connector - 52GHz (with / without Termination)

Frequency (GHz)	DC-6	6 - 12.4	12.4 - 18	18 - 26.5	26.5 - 40	40 - 50	50 - 52
Ins. Loss dB (max)	0.20	0.40	0.50	0.70	0.90	1.30/1.20	2.30/1.60
Isolation dB (min)	70/80	60/80	60/80	55/70	50/65	50/60	50/60
VSWR (max)	1.30:1	1.40:1	1.50:1	1.70/1.60:1	1.90/1.70:1	2.20/1.80:1	2.80/2.20:1

PIN 81 PIN 11 PIN 11

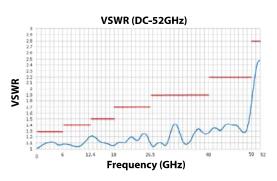
Normally Open (SP3T, K, DC-43GHz with TTL Driver)



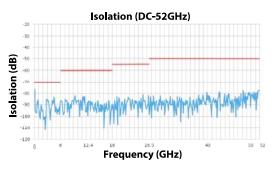
Latching (SP6T, 2.4mm, DC-52GHz with Termination)

-- RF DATA --

SP3T - SP6T 2.4mm DC-52GHz











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00000A

SP4T-1E-12A

LOT NO. EL-00296

12VDC

VOLTAGE :

Single - Pole - Multi - Throw (SP3T - SP6T)

Normally Open/Latching - N - DC to 18 GHz

The Single Pole Multi Throw (SP3T-SP6T) switch is a coaxial switch designed to switch a microwave signal from a common input to multiple outputs. The invdividual actuator mechanism allows random position selection. Normally open and latching actuator versions are available.

A wide selection of connectors and features are available to meet most requirements. Others options include position of indicator contacts, TTL drivers. See Model Numbering System for other options.

High reliability and low loss performance makes these switches ideal for testing and end product applications. Good low to medium power handling.

M series SPMT switches with higher temperature range is available for environments where additional shock, vibration, and humidity tolerance is required. Please visit EPX website or contact factory for details.

Specifications

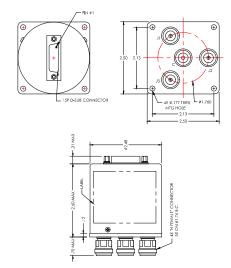
N Connector - 12GHz

Frequency (GHz)	DC - 1	1-4	4-8	8 - 12
Ins. Loss dB (max)	0.30	0.40	0.40	0.70
Isolation dB (min)	70	60	60	60
VSWR (max)	1.25:1	1.40:1	1.45:1	1.70:1

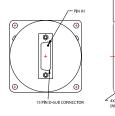
N Connector - 18GHz

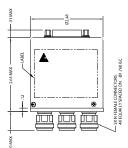
Frequency (GHz)	DC-3	3 - 8	8 - 12	12 - 18
Ins. Loss dB (max)	0.25	0.35	0.55	0.90
Isolation dB (min)	80	70	60	60
VSWR (max)	1.25:1	1.35:1	1.50:1	1.80:1

Outline



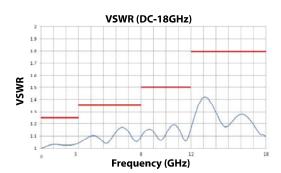
Latching (SP3T, N, DC-3GHz)

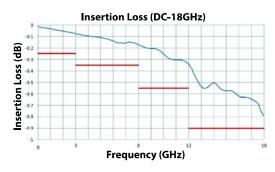


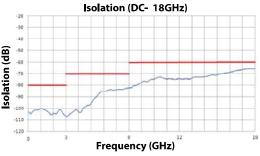


Latching (SP4T, N, DC-18GHz with TTL Driver)

-- RF DATA --SP6T N DC-18GHz













VOLTAGE: D/C 2048 LCT NO. EL-00298

Single - Pole - Multi - Throw (SP7T - SP8T)

Normally Open/Latching - SMA/K - DC to 40 GHz

The Single Pole Multi Throw (SP7T-SP8T) switch is a coaxial switch designed to switch a microwave signal from a common input to multiple outputs. The invdividual actuator mechanism allows random position selection. Normally open and latching actuator versions are available.

A wide selection of connectors and features are available to meet most requirements. Others options include position of indicator contacts, TTL drivers. See Model Numbering System for other options.

High reliability and low loss performance makes these switches ideal for testing and end product applications. Good low to medium power handling.

M series SPMT switches with higher temperature range is available for environments where additional shock, vibration, and humidity tolerance is required. Please visit EPX website or contact factory for details.

Specifications

SMA Connector - 18GHz

Frequency (GHz)	DC-6	6 - 12	12 - 18	
Ins. Loss dB (max)	0.20	0.40	0.50	
Isolation dB (min)	70	60	60	
VSWR (max)	1.25:1	1.40:1	1.50:1	

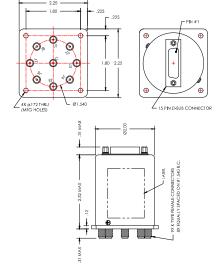
K 2.92mm Connector - 26.5GHz

Frequency (GHz)	DC-6	6 - 12	12 - 18	18 - 26	26 - 26.5
Ins. Loss dB (max)	0.25	0.45	0.60	0.90	1.30
Isolation dB (min)	80	75	70	65	60
VSWR (max)	1.20:1	1.40:1	1.50:1	1.70:1	2.10:1

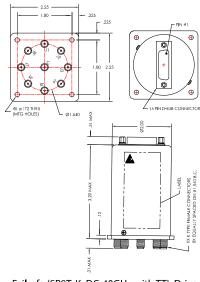
K 2.92mm Connector - 40GHz

Frequency (GHz)	DC-6	6-12	12 - 18	18 - 26.5	26.5 - 40
Ins. Loss dB (max)	0.30	0.40	0.60	0.80	1.50
Isolation dB (min)	80	70	70	70	70
VSWR (max)	1.20:1	1.30:1	1.50:1	2.00:1	2.20:1

Outline

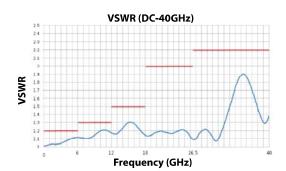


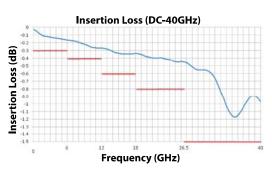
Latching (SP8T, K, DC-40GHz)

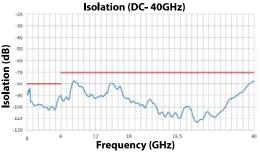


Failsafe (SP8T, K, DC-40GHz with TTL Driver)

-- RF DATA --SP8T K DC-40GHz









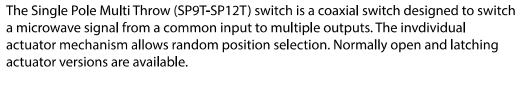


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Single - Pole - Multi - Throw (SP9T - SP12T)

Normally Open/Latching - SMA - DC to 18 GHz



EPX microwave
P/N: SP12T-0C-08A-T
VOLTAGE: 12VDC
D/C 2010 RoHS
LOT NO. FC-02894

A wide selection of connectors and features are available to meet most requirements. Others options include position of indicator contacts, TTL drivers. See Model Numbering System for other options.

High reliability and low loss performance makes these switches ideal for testing and end product applications. Good low to medium power handling.

M series SPMT switches with higher temperature range is available for environments where additional shock, vibration, and humidity tolerance is required. Please visit EPX website or contact factory for details.

Specifications

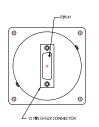
SMA Connector - 18GHz (SP9T - SP10T)

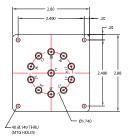
Frequency (GHz)	DC-6	6 - 12	12 - 18
Ins. Loss dB (max)	0.30	0.40	0.60
Isolation dB (min)	80	75	75
VSWR (max)	1.25:1	1.35:1	1.60:1

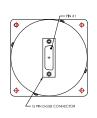
SMA Connector - 18GHz (SP11T - SP12T)

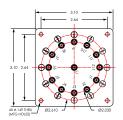
Frequency (GHz)	DC-2	2-4	4-8	8 - 12	12 - 18
Ins. Loss dB (max)	0.20	0.30	0.50	0.60	0.80
Isolation dB (min)	80	80	70	70	50
VSWR (max)	1.20:1	1.30:1	1.40:1	1.50:1	1.80:1

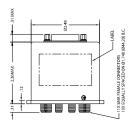
Outline

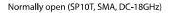


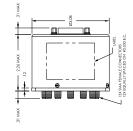






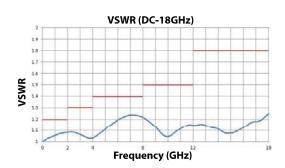


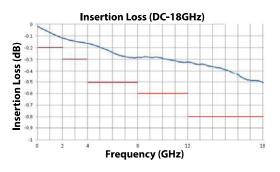


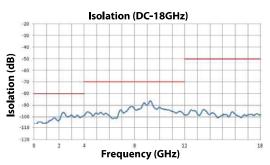


Normally Open (SP12T, SMA, DC-18GHz with Termination)

-- RF DATA --SP11T - SP12T SMA DC-18GHz













Since its foundation over 20 years ago, EPX Microwave has become known worldwide for its high-quality products and its continuous development of state-of-the-art RF/Microwave coaxial switching solutions.

Based in the United States with an office in Hong Kong to service Asia, EPX Microwave provides standard and custom switches to industry leading companies in telecom, wireless, medical, ATC, defense/aerospace, and consumer electronics applications.

EPX products are manufactured in a world class facility that is ISO 9001 certified and RoHS and REACH compliant. With many thousands of standard designs available, coupled with custom design options, EPX can meet the most exacting requirements with exceptional quality, performance, and reliability.

EPX specializes in testing applications from initial product development to full rate production ATE requirements, all optimized for enduring, consistent operation.

EPX focuses on fast delivery of standard designs as well as precision solutions for very high isolation, very low insertion loss, high RF power and low PIM requirements.

Let EPX Microwave be your partner for your demanding RF/Microwave switching solutions.