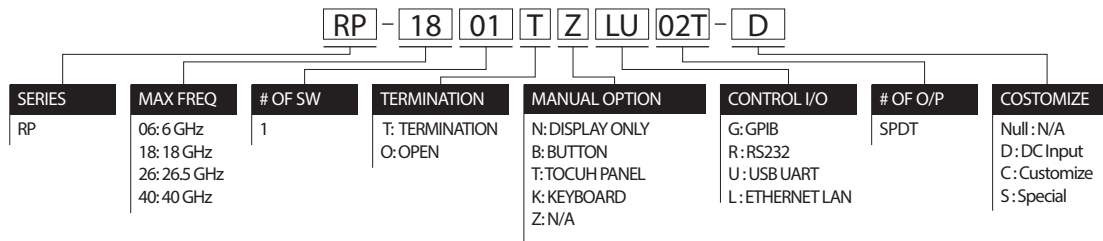


PART NUMBER DESCRIPTION



PRODUCT OVERVIEW

RP Switching Box Series allows switching of multiple signals without physically changing the connections. It provides the life and reliability required for automated test and measurement, signal monitoring and routing applications.

High Performance Switches for RF Applications

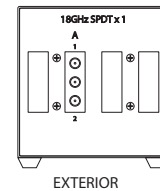
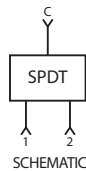
- Wide Frequency range, high Isolation, low insertion loss and high repeatability (Please refer to the specifications below for details).
- Guaranteed 5 Million cycles operating life (1 million cycles with additional indicator)

Flexible and Economic Configuration

- Economical price minimizes budgetary constraints
- Flexible configuration to meet various application demands

Optional Control Application

- Remote Control Interface : GPIB / RS232 / USB / Ethernet
- Manual Control Applications : Touch Panel / Button / External Keyboard



*Image for reference

FEATURE SPECIFICATIONS

RF PATH	SPDT x 1
CONNECTORS	SMA (F)
FREQUENCY RANGE	DC ~ 18 GHz
OPERATING LIFE	5 million cycles (RF contact)
MAX POWER RATING	1 watt (CW) average into 50 Ω loads
OPTIONAL CONTROL I/O	Ethernet LAN, USB UART (Type B)
OPTIONAL MANUAL	N/A
DC INPUT	12V / 2A

PERFORMANCE CHARACTERISTICS

	TEST CONDITION	SPECIFICATION
INSERTION LOSS	DC ~ 6 GHz	0.2 dB Max
	6 ~ 12 GHz	0.4 dB Max
	12 ~ 18 GHz	0.5 dB Max
ISOLATION	DC ~ 6 GHz	70 dB Min
	6 ~ 12 GHz	60 dB Min
	12 ~ 18 GHz	60 dB Min
VSWR	DC ~ 6 GHz	1.25 Max
	6 ~ 12 GHz	1.40 Max
	12 ~ 18 GHz	1.50 Max

PRODUCT OVERVIEW

Customizable Cable Assembly

78MS-78MSXX245	6GHz, SMA Male to SMA Male, XXcm
55FR-78MSXX127	6GHz, SMPM Female R/A to SMA Male, XXcm
78MS-78MSXX5013	18GHz, SMA Male to SMA Male, XXcm
78MS-78MSXX220	18GHz, N Male to SMA Male, XXcm
78MS-78MSXX320	26.5GHz, SMA Male to SMA Male, XXcm
38MS-38MSXX314	40GHz, K Male to K Male, XXcm

Torque Wrench

RP-TW8-8C	8mm, 8 lb-in, Conventional
RP-TW8-8CFV	8mm, 8 lb-in, Conventional Flat
RP-TW8-8S	8mm, 8 lb-in, Special Straight

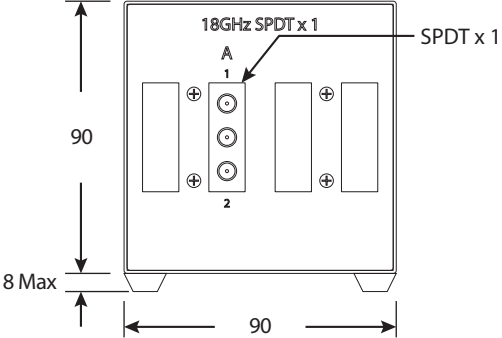
RF Attenuator

78FS-78MSAXP2R5C	6GHz, 2W, SMA, XdB(1,3,6,20dB)
78FS-78MSAXP2R5D	18GHz, 2W, SMA, XdB(1,3,6,20dB)
35FS-35MSAXP2R5E	26.5GHz, 2W, SMA, XdB(1,3,6,20dB)

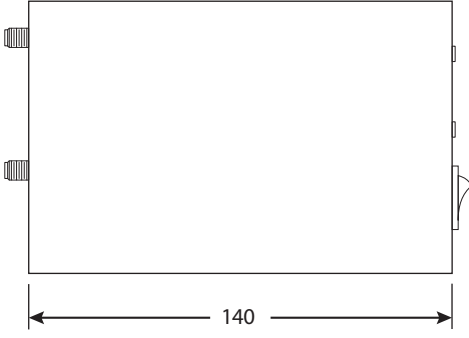


RAPIDTEK
RF COAXIAL PRODUCTS

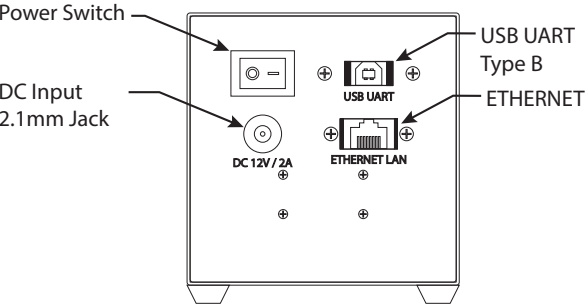
EXTERIOR (UNIT : mm)



Front View



Top View



Rear View



Side View

*Only for reference

Remote Configuration

USB UART / RS232 Connection

Serial Port	User Define
Baud Rate	9600
Data bit	8
Parity	None
Stop Bit	1

GPIB Connection

GPIB Port	22 (Default)
-----------	--------------

Ethernet LAN Connection

Host IP	192.168.1.150 (Default)
Destination port	23

Common Setting

Transmit Code	Line Feed (Char : \n Hex : 0A)
---------------	-----------------------------------

Remote Control Commands

Switching Channels

Mode	Command	Note
Char	"A1", "A2"	Switch Channels A1, A2
Hex	"41 31", "41 32"	(Default is A1)
	Result	
Char	"ACK"	Accept Command
Hex	"41 43 4B"	

Query Switch Current State

Mode	Command	Note
Char	"!SW?"	Show Switch Current Status
Hex	"21 53 57 3F"	
	Exsample Result	
Char	"SW: A1"	Switch Status : A1
Hex	"53 57 3A 41 31"	

Query Switch Usage Count

Mode	Command	Note
Char	"!TA?"	Show Switch Current Usage
Hex	"21 54 41 3F"	
	Exsample Result	
Char	"TA: 48"	Switch A Usage : 48
Hex	"54 41 3A 34 38"	



RAPIDTEK
RF COAXIAL PRODUCTS