

IT/ITE SERIES
SP3T to SP6T MULTI POSITION
50 OHM TERMINATED SWITCH
DC-22 GHz ◆ SMA



The **IT Series** features SMA connectors and a frequency range of DC to 18 GHz. Operation is by individual solenoids and 50 ohm internal terminations.

The **ITE Series** also features SMA connectors and a frequency range of DC to 22 GHz.

Both series are available with normally open, latching self cut-off, or pulse latching functions. This switch is used in systems where RF sources cannot tolerate an open circuit load condition.

Weight (max.):	10 oz
RF Impedance:	50 ohms nominal
Operating Temperature:	-25°C to +65°C ambient
Operating Life:	1,000,000 cycles min.
Switching Sequence:	Break Before Make

SPECIFICATIONS

Frequency	VSWR (max.)	Insertion Loss (dB max.)	Isolation (dB min.)
DC-4 GHz	1.20	0.30	75
4-8 GHz	1.30	0.35	70
8-12 GHz	1.40	0.40	65
12-18 GHz	1.50	0.50	60
18-22 GHz	1.60	0.60	60

Actuator Current (typical)	12Vdc	15 Vdc	24 Vdc	28Vdc
Latching	300mA	240mA	160mA	145mA
Normally Open	380mA	295mA	190mA	170mA

* If reduced coil current is required, please contact Factory.

Position	NO	NC	Latching
Switching Time - mSec (Max)	15	35	20

AVAILABLE OPTIONS

OPTION 3 VOLTAGE	OPTION 4 ACTUATOR				OPTION 5 POLARITY
1 - 12 Vdc 2 - 28 Vdc 3 - 15 Vdc 5 - Other 6 - 24 Vdc 7 - 5 Vdc	Latching Self Cut-Off		Normally Open		1 - Negative 2 - Positive 3 - Not Applicable / USB
	G - Diodes	H - Diodes, Indicators	L - Standard	N - Indicators	
	GY - Diodes with USB	HY - Diodes, Indicators with USB	M - Diodes	P - Diodes, Indicators	
			MY - Diodes	PY - Diodes, Indicators with USB	
	Low Input Drivers with:		High Input Drivers with:		
	J - Diodes	JH - Diodes	R - Diodes	RH - Diodes	
	K - Diodes, Indicators	KH - Diodes, Indicators	S - Diodes, Indicators	SH - Diodes, Indicators	
	JB - B C D, Diodes	JBH - B C D, Diodes	RB - B C D, Diodes	RBH - B C D, Diodes	
	KB - B C D, Diodes, Indicators	KBH - B C D, Diodes, Indicators	SB - B C D, Diodes, Indicators	SBH - B C D, Diodes, Indicators	
	Pulse Latching				OPTION 6 TERMINALS
	T - Standard				1 - Solder Terminals
	U - Diodes				2 - Circular Connector
	V - Indicators				3 - Other (Specify) / USB
	W - Diodes, Indicators				4 - Sub Miniature D-Shell Connector

ADDITIONAL OPTIONS

OPTION 7 STANDARD OPTIONS
1 - Moisture Seal 2 - High Temperature (125° C) 3 - Moisture Seal & High Temperature (125° C)
OPTION 8 BRACKETS
A - See Page 144

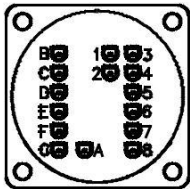
Please Note: USB integration can only be applied to Voltage Options 5Vdc, 12Vdc, & 15Vdc, Polarity Option # 3, and Terminals Option # 3. Schematics may include optional Indicator Contacts. If your Actuator Option does not include Indicator Contacts, omit them from the schematic.

IT/ITE

Option 1 Positions	Option 2 Series	Option 3 Voltage	Option 4 Actuator	Option 5 Polarity	Option 6 Terminals
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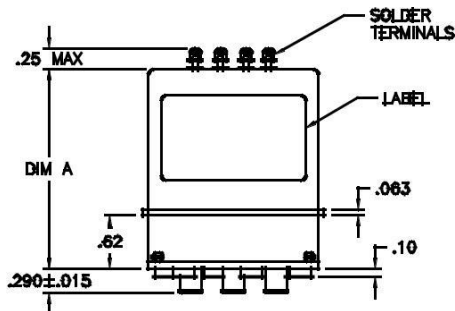
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TOP VIEW

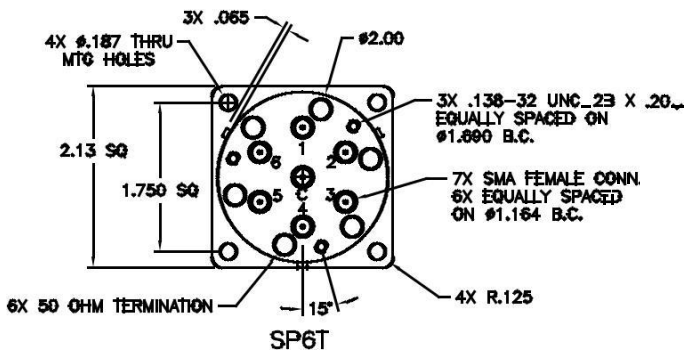


Actual markings will reflect terminal functions, not letter or number designation as shown above.

FRONT VIEW



BOTTOM VIEW



DC TERMINAL FUNCTIONS

PIN	NORMALLY OPEN				LATCHING		
	L, N	M, P	R, RH, RB, RBH, S, SH, SB, SBH	G, H	J, JH, JB, JBH, K, KH, KB, KBH	T, V	U, W
1	C	C+/-	+V SW	C+/-	+V SW	C+/-	C+/-
2	N/A	N/A	C RTN	N/A	C RTN	RESET	N/A
3	AV 1	AV 1-/+	L 1 or B C D 1	AV 1-/+	L 1 or B C D 1	PV 1-/+	PV 1-/+
4	AV 2	AV 2-/+	L 2 or B C D 2	AV 2-/+	L 2 or B C D 2	PV 2-/+	PV 2-/+
5	AV 3	AV 3-/+	L 3 or B C D 4	AV 3-/+	L 3 or B C D 4	PV 3-/+	PV 3-/+
6	AV 4	AV 4-/+	L 4	AV 4-/+	L 4	PV 4-/+	PV 4-/+
7	AV 5	AV 5-/+	L 5	AV 5-/+	L 5	PV 5-/+	PV 5-/+
8	AV 6	AV 6-/+	L 6	AV 6-/+	L 6	PV 6-/+	PV 6-/+

SCHEMATICS

Pages 132-137							
	M14	M15	M16, M17	M18	M19, M20	M21, M22	M21, M22

INDICATORS

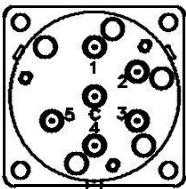
PIN	A	B	C	D	E	F	G
	COM	1	2	3	4	5	6

See Page 158 for Legend of Terms and Tolerances

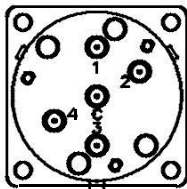
See Page 138 for Logic & BCD Truth Table

L, T	2.08
G, H, W, U, V	2.33
J, JH, K, KH	2.58
JB, JBH, KB, KBH	2.58
M, N	2.33
P	2.58
R, RB, RBH, RH	2.58
S, SB, SBH, SH	2.58

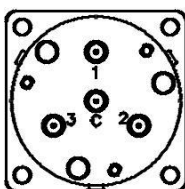
* Consult factory for Dimension "A" when multi pin connector is desired.



SP5T



SP4T



SP3T