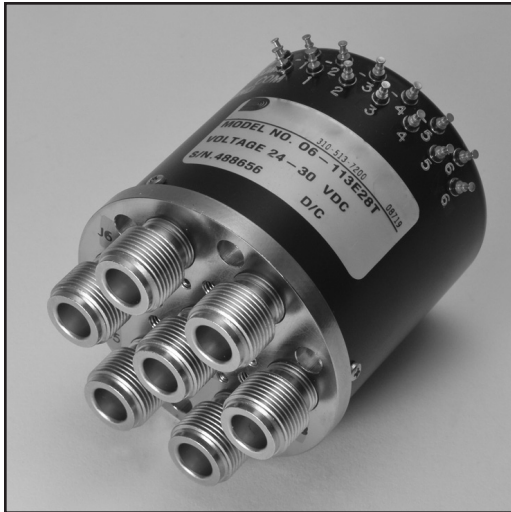


O SERIES
1P3T to 1P6T MULTI POSITION 50
OHM TERMINATED SWITCH
DC-12.4 GHz ◆ **N, BNC, TNC**

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The **O Series** features N or TNC connectors and a frequency range of DC to 12.4 GHz.

This series is available with latching self cut-off or normally open functions with terminations.

RF Impedance:	50 ohms nominal
Temperature Range:	-35°C to +85°C ambient
Operating Life:	1,000,000 cycles min.
Switching Time:	15 mSec max.
Switching Sequence:	Break Before Make
Environmental:	Designed in Accordance to MIL-DTL-3928 (Testing and Operation Modes)

SPECIFICATIONS

Frequency	VSWR (max.)	Insertion Loss (dB max.)	Isolation (dB min.)
DC-3 GHz	1.20	0.20	80
3-8 GHz	1.35	0.35	70
8-12.4 GHz	1.50	0.50	60

Actuator Current (typical)	12Vdc	12-15 Vdc	20-24 Vdc	24-30Vdc
Normally Open	240mA	300mA	200mA	140mA
Latching	280mA	353mA	320mA	215mA

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

AVAILABLE OPTIONS

OPTION 2 RF CONNECTORS	OPTION 4 VOLTAGE	OPTION 5 ACTUATOR	OPTION 6 FREQUENCY	OPTION 8 SPECIAL OPTIONS
1 - N	1 - 6 Vdc +/- 10%	Latching Self Cut-Off	2 - DC to 12.4 GHz	L - TTL (High)
2 - BNC	2 - 12 Vdc +/- 10% (USB Optional)			LL - TTL (Low)
3 - TNC	3 - 24-30 Vdc	E - Diodes, Indicators (USB Optional)		1 - Bracket
OPTION 3 TERMINALS	4 - 48 Vdc +/- 10%	Normally Open		F - Flange
	5 - 110 Vac +/- 10%	G - Diodes, Indicators (USB Optional)	OPTION 7 POLARITY	M - Manual Override
	6 - 12-15 Vdc (USB Optional)	H - Indicators		P - High Power Handling
	7 - 18-20 Vdc	J - Diodes (USB Optional)		R - Reset (Latching Only)
	8 - 20-24 Vdc	K - Standard		C - BCD
	N - Failsafe to Position 1 - Standard	T - Termination		
2 - Solder Terminals		R - Failsafe to Position 1 - Diodes	U - USB	
4 - Sub Miniature D-Shell Connector		S - Failsafe to Position 1 - Diodes, Indicators		
5 - USB				

Please Note: USB integration can only be applied to Voltage Options 12Vdc, & 15Vdc, Polarity Option # 3, and Terminals Option # 3.

The switch has a mini-USB socket on the enclosure interface which provides communication between switch and computers. Additionally, the enclosure also has a Molex socket for 12Vdc connection, which is required to power RF switch. The switch is accompanied with a CD driver, a 3 ft. USB cable and a 12 Vdc AC/DC adapter.

O	-	2
Option 1 Series	Option 1 Number of Positions	Option 2 RF Connectors
		Option 3 Terminals
		Option 4 Voltage
		Option 5 Actuator
		Option 6 Frequency
		Option 7 Polarity
		Option 8 Special Options

DC TERMINAL FUNCTION

PIN	LATCHING			NORMALLY OPEN					NORMALLY OPEN - FAILSAFE TO POSITION 1						
	D	D w/ TTL	E	E w/ TTL	J	K	J, K w/ TTL	G	H	G, H w/ TTL	N	R	N, R w/ TTL	S	S w/ TTL
1	NOTE #1	NOTE #1	NOTE #1	NOTE #1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
2	COM+/-	+A	COM+/-	+A	COM+/-	COM	+A	COM+/-	COM	+A	COM	COM+/-	+A	COM+/-	+A
3	1-/+	-B	1-/+	-B	1-/+	1	-B	1-/+	1	-B	2	2-/+	-B	2-/+	-B
4	2-/+	1	2-/+	1	2-/+	2	1	2-/+	2	1	3	3-/+	2	3-/+	2
5	3-/+	2	3-/+	2	3-/+	3	2	3-/+	3	2	4	4-/+	3	4-/+	3
6	4-/+	3	4-/+	3	4-/+	4	3	4-/+	4	3	5	5-/+	4	5-/+	4
7	5-/+	4	5-/+	4	5-/+	5	4	5-/+	5	4	6	6-/+	5	6-/+	5
8	6-/+	5	6-/+	5	6-/+	6	5	6-/+	6	5	N/A	N/A	6	N/A	6
9	N/A	6	N/A	6	N/A	N/A	6	N/A	N/A	6	N/A	N/A	N/A	N/A	N/A
A	N/A	N/A	COM	COM	N/A	N/A	N/A	COM	COM	COM	N/A	N/A	N/A	COM	COM
B	N/A	N/A	1	1	N/A	N/A	N/A	1	1	1	N/A	N/A	N/A	1	1
C	N/A	N/A	2	2	N/A	N/A	N/A	2	2	2	N/A	N/A	N/A	2	2
D	N/A	N/A	3	3	N/A	N/A	N/A	3	3	3	N/A	N/A	N/A	3	3
E	N/A	N/A	4	4	N/A	N/A	N/A	4	4	4	N/A	N/A	N/A	4	4
F	N/A	N/A	5	5	N/A	N/A	N/A	5	5	5	N/A	N/A	N/A	5	5
G	N/A	N/A	6	6	N/A	N/A	N/A	6	6	6	N/A	N/A	N/A	6	6

NOTE#1: RESET IF (R) OPTION IS SELECTED, OTHERWISE N/A

SCHEMATICS

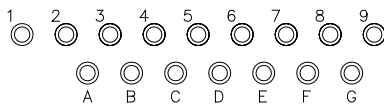
Pages 139-143

FIG.	25	26	25	26	29	29	30	29	29	30	33	33	34	33	34
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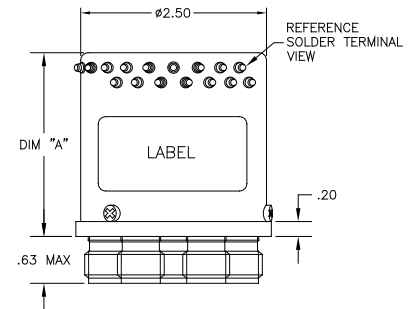
OUTLINE DRAWING DIMENSION "A"

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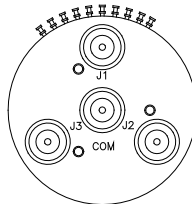
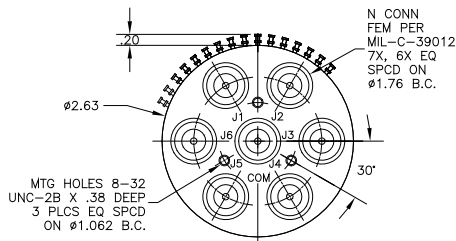
DC TERMINAL VIEW



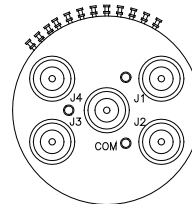
FRONT VIEW



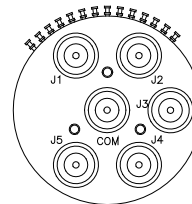
BOTTOM VIEW



SP3T



SP4T



SP5T