O SERIES 1P3T to 1P6T MULTI POSITION SWITCH DC-12.4 GHz N, BNC, TNC



Ducommun



The *O Series* features N, BNC 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.

RF Impedance: Temperature Range: Operating Life: Switching Time: Switching Sequence: Environmental: 50 ohms nominal -35°C to +85°C ambient 1,000,000 cycles min. 15 mSec max. Break Before Make 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

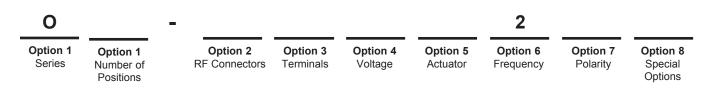
Actuator Current				
(typical)	12Vdc	12-15 Vdc	20-24 Vdc	24-30Vdc
Normally Open	240mA	240mA	170mA	140mA
Latching	280mA	280mA	270mA	220mA

AVAILABLE OPTIONS

OPTION 2 RF CONNECTORS	OPTION 4 VOLTAGE	OPTION 5 ACTUATOR	OPTION 6 FREQUENCY	OPTION 8 SPECIAL OPTIONS			
1 - N 2 - BNC 3 - TNC	1 - 6 Vdc +/- 10% 2 - 12 Vdc +/- 10% 3 - 24-30 Vdc	Latching Self Cut-Off D - Diodes (USB Optional) E - Diodes, Indicators (USB Optional)	2 - DC to 12.4 GHz	L - TTL (High) LL - TTL (Low) 1 - Bracket			
OPTION 3 TERMINALS	(USB Optional) 4 - 48 Vdc +/- 10%	Normally Open	OPTION 7 POLARITY	F - Flange M - Manual Override			
 Solder Terminals Circular Connector Sub Miniature 	5 - 110 Vac +/- 10% 6 - 12-15 Vdc (USB Optional) 7 - 18-20 Vdc	G - Diodes, Indicators (USB Optional) H - Indicators J - Diodes (USB Optional) K - Standard	0 - Not Applicable, USB 8 - Positive Common 9 - Negative Common	P - High Power Handling R - Reset (Latching Only C - BCD U - USB			
D-Shell Connector 5 - USB	8 - 20-24 Vdc	 N - Failsafe to Position 1 - Standard R - Failsafe to Position 1 - Diodes S - Failsafe to Position 1 - Diodes, Indicators 					

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.



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	DC TERMINAL FUNCTION																
		LATC	HING			NORMALLY OPEN						NORMALLY OPEN - FAILSAFE TO POSITION 1					
PIN	D	D w/ TTL	E	E w/ TTL	J	к	J, K w/ TTL	G	Н	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-/+	-В	1-/+	-В	1-/+	1	-В	1-/+	1	-В	2	2-/+	-В	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		
Α	N/A	N/A	COM	COM	N/A	N/A	N/A	COM	COM	COM	N/A	N/A	N/A	COM	COM		
в	N/A	N/A	1	1	N/A	N/A	N/A	1	1	1	N/A	N/A	N/A	1	1		
С	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		

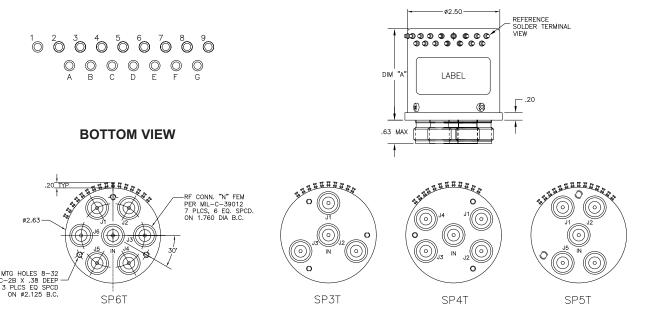
NOTE#1: RESET IF (R) OPTION IS SELECTED, OTHERWISE N/A

SCHEMATICS															
	Pages 139-143														
FIG.	25	26	25	26	29	29	30	29	29	30	33	33	34	33	34
						0.117									

 OUTLINE DRAWING DIMENSION "A"														
2.47"	3.20"	2.47"	3.20"	1.97"	1.97"	2.88"	2.47"	2.47"	3.20"	1.97"	1.97"	2.88"	2.47"	3.20"

DC TERMINAL VIEW

FRONT VIEW



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