

BROADBAND

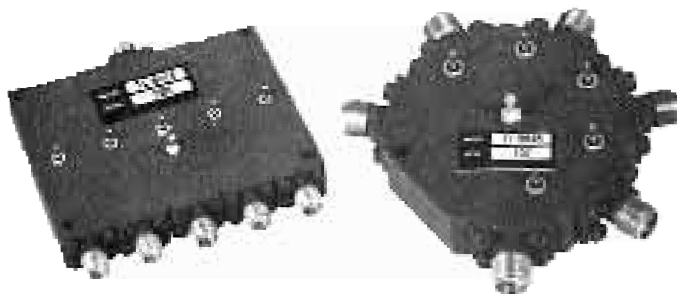
SP5T DIODE SWITCH

HIGH ISOLATION-REFLECTIVE-ABSORPTIVE 0.1–18 GHz

SERIES TB-500

GENERAL SPECIFICATIONS

Frequency Coverage:	0.1 to 18.0 GHz.
RF Impedance:	50 OHMS.
RF Power:	+20 dBm operational.
DC Requirements:	Switches with drivers require +5 volts at +300 mA and –5 volts at –110 mA supplies. Logic is TTL "0" when "on" and "1" when "off". Different supply voltages and logic available if specified at time of order.
Temperature Information:	Operating temperature from –55°C to +85°C.
Switching Speed:	10% to 90% or 90% to 10% of RF. There is an additional 30 nanosec of driver delay.
Connectors:	RF connectors are SMA. Mating connector Supplied for all units with multipin connector; ITT Cannon MDBI-9SSL or equiv.

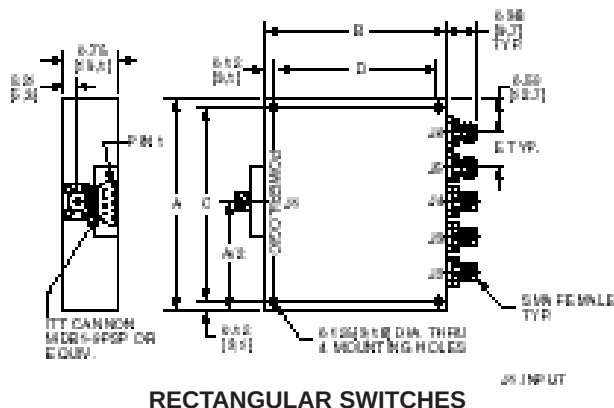


MECHANICAL OUTLINES

Outline	A in [mm]	B in [mm]	C in [mm]	D in [mm]	E in [mm]
1	2.60 [66.04]	2.00 [50.8]	2.350 [59.7]	1.750 [44.45]	0.40 [10.2]
2	3.00 [76.2]	3.00 [76.2]	2.750 [69.91]	2.750 [69.91]	0.50 [12.7]
3	0.71 [18.0]	1.350 [34.29]	—	—	—
4	1.00 [25.4]	2.000 [50.8]	—	—	—
5	3.00 [76.2]	3.50 [88.9]	2.750 [69.91]	3.250 [83.55]	0.50 [12.7]
6	1.25 [31.75]	2.550 [64.8]	—	—	—

PIN	CONNECTION
1	J5: CONTROL
2	J6: CONTROL
3	J4: CONTROL
4	J5: CONTROL
5	J6: CONTROL
6	N.C.
7	GND
8	+5V
9	–5V

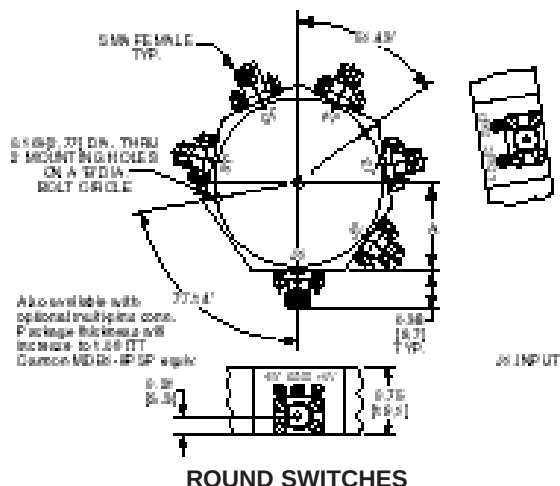
Also available in 1/8" optical solder pins.



RECTANGULAR SWITCHES

ELECTRICAL PERFORMANCE

Model No.	Type	Frequency Range (GHz)	Isolation Minimum dB	Insertion		VSWR Maximum	Outline	#	Speed Nanosec.
				Loss Maximum dB					
TB-515-HARD	ABS	0.1–1.0	80	1.40	1.80	RD	4	2,000 nsec.	
TB-516-SD-1	REFL	0.1–1.0	80	1.25	1.80	Rect.	4	500 nsec.	
TB-532-HARD-2	ABS	0.5–1.0	80	1.50	1.80	RD	4	20 nsec.	
TB-535-HARD-2	ABS	0.5–2.0	80	1.60	1.80	RD	4	20 nsec.	
TB-538-SD	REFL	1.0–2.0	60	1.20	1.80	Rect.	1	2,000 nsec.	
TB-558-SD-1	REFL	2.0–8.0	60	1.60	1.80	Rect.	1	100 nsec.	
TB-558-HARD-2	ABS	2.0–8.0	80	1.90	1.90	RD	6	20 nsec.	
TB-567-HASD	ABS	4.0–8.0	80	1.70	1.90	Rect.	1	2,000 nsec.	
TB-579-HARD-2	ABS	6.0–18.0	80	3.60	2.50	RD	4	20 nsec.	
TB-596-ASD	ABS	8.0–18.0	30	3.10	2.50	Rect.	1	2,000 nsec.	



ROUND SWITCHES

KEY: Inches[Millimeters] .XX ±.03 .XXX ±.010 [.X ±0.8 .XX ±0.25]



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