

NARROWBAND

SP4T DIODE SWITCH

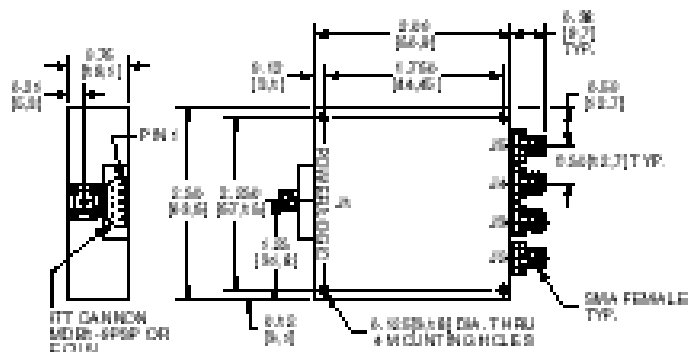
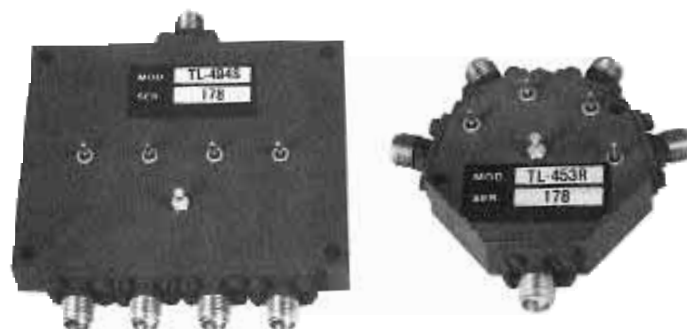
REFLECTIVE AND ABSORPTIVE 0.1–18 GHz

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 + 240 mA and –5 volts at –1 00 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 multi-pin connector; ITT Cannon MDB1-9SSL or equiv.

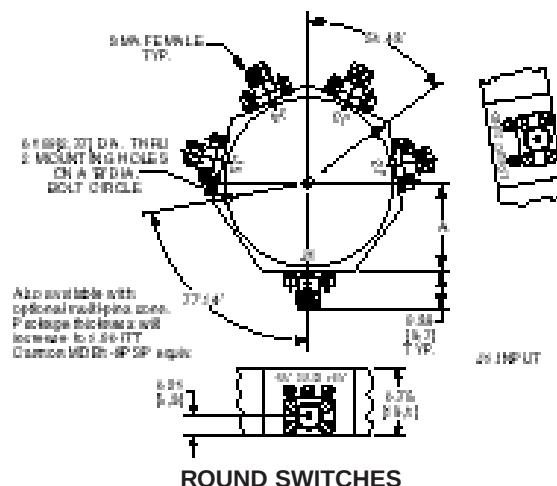
PIN	CONNECTION
1	5V CONTROL
2	5V CONTROL
3	5V CONTROL
4	5V CONTROL
5	N.C.
6	N.C.
7	GND
8	–5V
9	–5V

Also available with optional solder pins.



ELECTRICAL PERFORMANCE

Model No.	Type	Frequency Range (GHz)	Isolation Minimum dB	Insertion Loss Maximum dB	VSWR Maximum	Outline	#	Speed
TB-417-ASD	ABS	0.1–1.0	30	1.20	1.75	Rect.	—	2,000 nsec.
TB-415-HARD	ABS	0.1–1.0	80	1.30	1.75	RD	1	2,000 nsec.
TB-412-HASD	ABS	0.1–1.0	60	1.20	1.75	Rect.	—	2,000 nsec.
TB-416-RD	REFL	0.1–2.0	80	1.20	1.75	RD	1	2,000 nsec.
TB-422-HASD-1	ABS	0.1–2.0	80	1.65	1.75	Rect.	—	500 nsec.
TB-426-HARD	ABS	0.25–0.5	80	1.30	1.75	RD	1	2,000 nsec.
TB-434-HASD	ABS	0.5–2.0	60	1.20	1.75	Rect.	—	2,000 nsec.
TB-444-HASD	ABS	1.0–6.0	60	1.40	1.75	Rect.	—	2,000 nsec.
TB-446-HARD	ABS	1.0–6.0	80	1.50	1.75	RD	2	2,000 nsec.
TL-472-SD-1	REFL	2.0–18.0	30	3.15	2.50	Rect.	—	100 nsec.
TB-454-HASD	ABS	2.0–4.0	80	1.40	1.75	Rect.	—	2,000 nsec.
TB-455-HARD-1	ABS	2.0–4.0	60	1.60	1.75	RD	1	100 nsec.
TB-460-SD	REFL	2.0–8.0	80	1.70	1.80	Rect.	—	100 nsec.
TB-468-SD	REFL	4.0–8.0	80	1.50	1.80	Rect.	—	2,000 nsec.
TB-479-HASD-2	ABS	6.0–18.0	80	3.70	2.50	Rect.	—	20 nsec.
TN-474-ASD-1	ABS	8.5–9.6	30	1.50	1.50	Rect.	—	100 nsec.



MECHANICAL OUTLINES—ROUND CONFIGURATION

	A in[mm]	B in[mm]
1	1.00[2,54]	2.000[50,8]
2	1.25[31,75]	2.550[64,8]

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