TTL-Compatible PIN Diode Switches

0.01 - 18 GHz Frequency Range

New Products

Features

- .01 to 18 GHz Frequency Range
- TTL-Compatible
- 100 to 250 nsec. Switching Speed
- Hi-Rel Screening Available
- SMA Female Connectors Standard (Drop-ins Available)
- Reflective and Absorptive Units
- SPST to SP5T Available

MIDISCO TTL compatible switches have widespread applications in EW and Communications Systems as well as in Automated Test Equipment. The SPDT switches shown here is only a partial listing of our cost-effective narrow-band and high-performance broadband designs. Other frequency ranges to 26 GHz and reversed logic available. TTL Drivers operate from +5V, and -15 +/-3V power supplies. All switches are DC blocked on the RF ports. Epoxy-sealed and hermetically sealed options screened to MIL-STD-883 are available.

	ABSORPTIVE SWITCHES				REFLECTIVE SWITCHES			COMMON SPECIFICATIONS	
Frequency (GHz)	Model Number	Loss (dB) max.	VSWR (max.)	Isolation (min.)	Loss (dB) max.	VSWR (max.)	Isolation (min.)	Switching Speed (nsec.)	Max. RF (Watts CW)
0.01-0.5	MDC3037-1	1.0	1.5	80	0.9	1.5	75	250	2.0
0.01-2.0	MDC3037--2	1.9	1.6	80	1.8	1.6	75	250	2.0
0.01-4.0	MDC3037-3	2.7	1.8	80	2.6	1.8	75	250	2.0
0.1-1.0	MDC3037-4	1.3	1.5	80	1.2	1.5	80	250	2.0
0.1-4.0	MDC3037-5	2.7	1.8	80	2.6	1.8	75	250	2.0
0.5-2.0	MDC3037-6	1.5	1.6	80	1.4	1.6	80	100	2.0
0.5-4.0	MDC3037-7	2.1	1.8	80	2.0	1.8	75	100	2.0
1.0-4.0	MDC3037-8	1.3	1.6	85	1.2	1.6	80	100	2.0
1.0-8.0	MDC3037-9	2.0	1.8	80	1.9	1.8	75	100	2.0
1.0-18.0	MDC3037-10	3.1	2.0	65	2.9	2.0	60	100	0.5
2.0-4.0	MDC3037-11	1.2	1.6	75	1.1	1.6	70	100	2.0
2.0-8.0	MDC3037-12	1.9	1.8	75	1.8	1.8	70	100	1.0
2.0-12.0	MDC3037-13	2.2	1.9	70	2.1	1.8	65	100	1.0
2.0-18.0	MDC3037-14	3.1	2.0	65	2.9	2.0	60	100	0.5
4.0-8.0	MDC3037-15	1.9	1.6	75	1.7	1.6	70	100	1.0
4.0-12.0	MDC3037-16	2.2	1.8	70	2.0	1.8	65	100	1.0
4.0-18.0	MDC3037-17	3.0	2.0	65	2.8	2.0	60	100	0.5
6.0-12.0	MDC3037-18	2.2	1.8	70	2.0	1.8	65	100	1.0
6.0-18.0	MDC3037-19	3.0	2.0	65	2.8	2.0	60	100	0.5
8.0-18.0	MDC3037-20	3.0	2.0	65	2.8	2.0	60	100	0.5

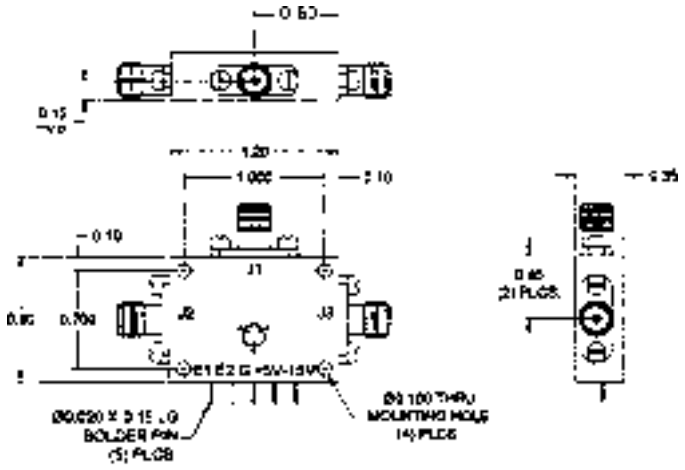
Common Specifications: +5V @ 80 ma. max., -15 +/- 3V @ 50 ma. max. TTL logic "0" = Low loss. TTL logic "1" = Isolation.

Model Number Construction

MDC3037X-(*)-(**)

(*): Insert -1 through -20 as shown in table above for frequency required.

X: Substitute R for X for reflective switch. Leave blank for absorptive switch.

(**): Add suffix -1, -3, -4, or -5 for SPST, SP3T, SP4T, or SP5T respectively. No suffix is required for SPDT.
ie: A SP3T reflective switch for 2-8 GHz is a MDC3037R-12-3.

A SP2T absorptive switch operating over the same frequency range is an MDC3037-12.