

SP3T DIODE SWITCH

REFLECTIVE AND ABSORPTIVE 0.02–18 GHz

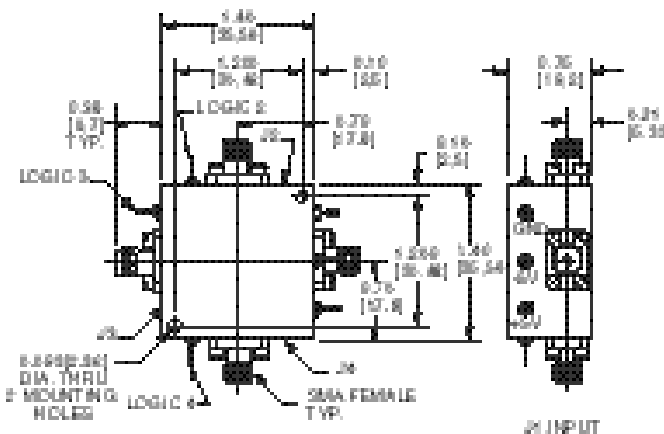
SERIES VB, VN

GENERAL INFORMATION

Series VB, VN, switches are medium power devices that operate over commonly used frequency ranges. Carefully selected diodes placed in either series, series-shunt, or shunt configurations produce excellent electrical performance from UHF through KU bands.

GENERAL SPECIFICATIONS

Frequency Coverage:	0.02 to 18.0 GHz.
RF Impedance:	50 OHMS.
RF Power:	+20 dBm operational.
DC Requirements:	Switches require +5 volts at +180 mA and –5 volts at –75 mA supplies. Logic is TTL “0:” when “on” and “1” when “off”.
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.



OUTLINE WITH DRIVER

ELECTRICAL PERFORMANCE

Model No.	Type	Frequency Range GHz	Isolation Minimum dB	Insertion Loss Maximum dB	VSWR Maximum	Speed
VN-11-HASD-1	ABS	0.02–0.07	80	0.65	1.40	500 nsec.
VB-17-SD	REFL	0.1–1.0	80	1.10	1.70	2,000 nsec.
VB-17-HASD	ABS	0.1–1.0	80	1.20	1.70	2,000 nsec.
VB-35-HASD	ABS	0.5–2.0	60	1.10	1.70	2,000 nsec.
VB-37-HASD-1	ABS	0.5–2.0	80	1.30	1.70	100 nsec.
VB-48-HASD	ABS	1.0–6.0	80	1.40	1.70	2,000 nsec.
VB-57-HASD	ABS	2.0–4.0	80	1.30	1.70	2,000 nsec.
VB-73-HASD-2	ABS	2.0–18.0	80	3.60	2.50	20 nsec.
VB-75-HASD	ABS	5.0–10.0	60	1.80	1.70	2,000 nsec.
VB-84-HASD-2	ABS	6.0–18.0	80	3.60	2.50	20 nsec.
VB-95-HASD	ABS	8.0–18.0	80	3.30	2.50	2,000 nsec.
VN-77-ASD	ABS	8.5–9.6	30	1.40	1.50	2,000 nsec.

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



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