PIN DIODE
TRANSFER SWITCHES – DPDT

Broadband – High Isolation – Low Insertion Loss and V.S.W.R.

G.T. Microwave Features:

Frequency Ranges: From 100 MHz to 20 GHz any optimized bandwidth is available.

TTL Compatable Logic: Logic '1' = Low Loss J1–J2/J3–J4 & Logic '0' = Low Loss J1–J4/J2–J3. Switches without TTL driver; +1VDC @ +60mA = Low Loss J1–J2 & –1VDC @ –60mA = Low Loss J3–J4 on 2 independent logic inputs or visa versa for J1–J4/J2–J3. For logic options, please consult factory.

High Speed Switching: Switches listed are measured from 50% TTL to 10%/90% RF.

Low DC Power Consumption: Switches with TTL drivers require ?5VDC @ ?60mA.

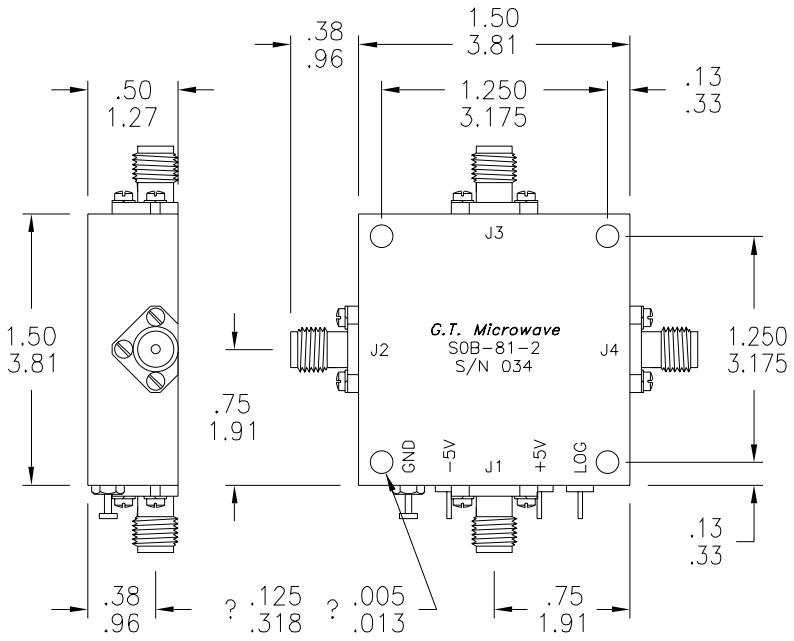
High RF Power Handling: For power levels greater than listed, please consult factory.

Standard Interfaces: RF port connectors are 'SMA', female per MIL–C–39012. DC/LOGIC connections are solder terminals. Call factory for optional connectors.

Matched Phase & Amplitude: Models listed are available with matched ports. Please consult factory.

Life Time Integrity: G.T.M.I.'s switches are designed to meet MIL–E–16400, Range 1 and MIL–E–5400, Class 2 environments operating within the –55? to +85?C temperature range. MIL–STD–883 screening, –90 dBc RFI/EMI shielding, video filtering and 10^{-6} cc/SEC hermeticity are available. Page 8 has Environmental Ratings.

Actual Size Shown



DPDT Switch Outline Drawing

DIMENSIONS ARE EXPRESSED IN / CM TOLERANCES ? .02 / .05 ? .010 / .025

Microwave Products Available

Switches	BP/QPSK & Vector Modulators	Couplers
Attenuators	Gain Equalizers	D.C. Blocks
Hybrids	Power Dividers/Combiners	Bias Tees
Phase Shifters	Custom Sub–Assemblies	Detectors

Passive, Linearized Voltage or Current Controlled Analog, Digital, Programmable and Temperature Compensated

Electrical Specifications for TRANSFER switches – DPDT

FREQ. RANGE GHz	ISOLATION dB	INSERTION LOSS dB & SWITCHING SPEED REFL	uSEC	INSERTION LOSS dB & SWITCHING SPEED REFL	nSEC	INSERTION LOSS dB & SWITCHING SPEED REFL	nSEC	V.S.W.R. MAX	INPUT POWER WATTS TYP	MAX
0.5–2.0	30	0.7	1.0	0.9	100	1.0	30	1.4:1	0.1	1.0
	60	0.9		1.1		1.2				
2.0–8.0	30	1.8	1.0	2.0	100	2.1	30	1.6:1	0.2	1.0
	60	2.0		2.2		2.3		1.8:1		
6.0–18.0	30	2.8	1.0	3.0	100	3.1	30	2.0:1	0.2	1.0
	60	3.1		3.3		3.4				
2.0–18.0	30	2.9	1.0	3.1	100	3.2	30	2.0:1	0.2	1.0
	60	3.2		3.4		3.5				

For substantial improvement in performance; ask for OPTIMIZED NARROWBAND models