

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 Compatible 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.

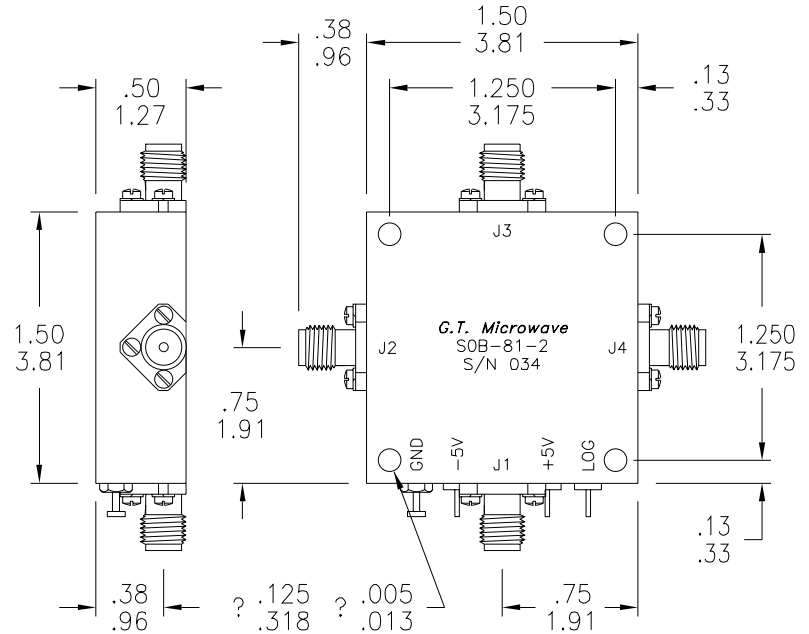
High RF Power Handling: For power levels greater than listed, please consult factory.

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 $\frac{IN}{CM}$ TOLERANCES ? .02 ? .010
? .05 ? .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		INSERTION LOSS dB & SWITCHING SPEED REFL		INSERTION LOSS dB & SWITCHING SPEED REFL		V.S.W.R. MAX	INPUT POWER WATTS	
		uSEC	nSEC	nSEC	nSEC	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				
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