

FEATURES

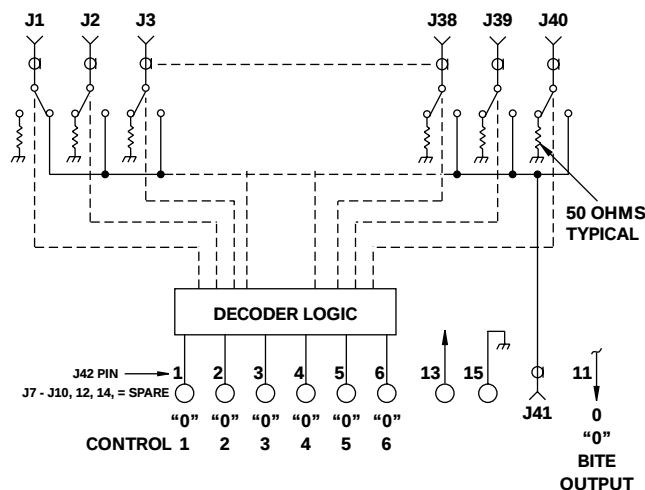
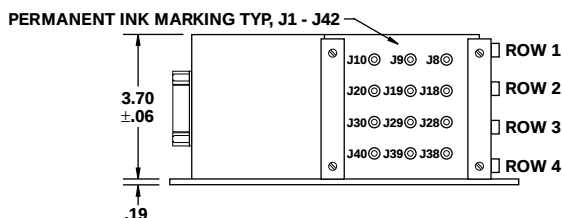
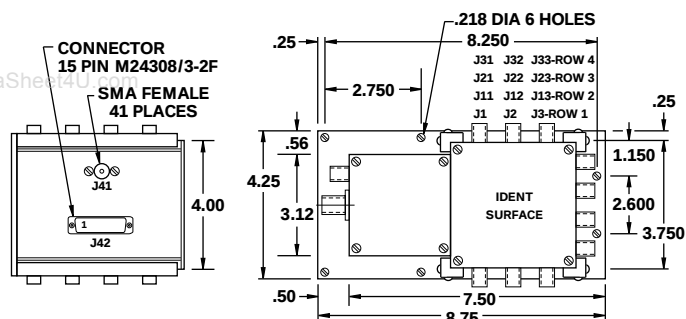
- 350 - 450 MHz
- 1.7 dB Insertion Loss
- 55 dB Isolation
- 6 Line Encoded TTL Control
- Constant Phase
- Bite Circuitry
- SMA Connectors

HDI



MODEL NO.
DSWM9040

PIN Diode Switch SP40T



GUARANTEED PERFORMANCE

Parameter	Min	Typ	Max	Units	Conditions
Operating Frequency	350		450	MHz	
DC Current			120	mA	At +5 VDC Supply
Control Type		TTL			6 Line, See Control Table
Bite Circuitry		TTL			Logic "1" = Failure Output goes high within 1.5 μ Sec of Failure
Control Current	High Low	1 1	± 10 ± 10	μ A	$V_{IH} = +2.7$ V $V_{IL} = +0.5$ V
Insertion Loss		1.7	3.0	dB	
Insertion Loss Flatness			± 0.5	dB	Over Temperature
Insertion Loss Stability			0.3	dB	370 - 450 MHz
Insertion Loss Matching			± 0.3	dB	350 - 370 MHz
Insertion Phase Ripple			± 2.0	DEG	From Linear
Insertion Phase Stability			± 2.0	DEG	Over Temperature
Insertion Phase Matching			± 0.5	DEG	370 - 450 MHz
Isolation	45	55		dB	Between Outputs
VSWR	Thru Termination	1.15	1.3/1 1.3/1		
Impedance		50		OHMS	
Switching Speed		4	5	μ Sec	50% TTL to 10% / 90% RF
Transition (Rise/Fall) Time		1.5		μ Sec	10% / 90% to 90% / 10% RF
RF Power	Operate No Damage		+20	dBm	0.1 dB Compression
Operating Temperature	-15	+25	+70	$^{\circ}$ C	TA

