

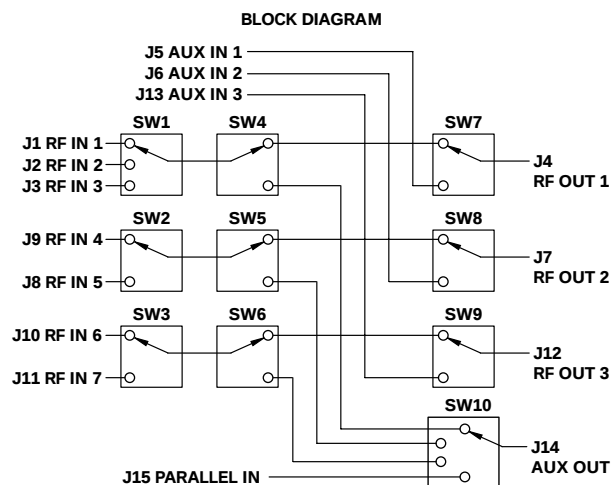
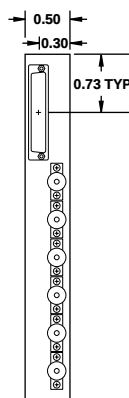
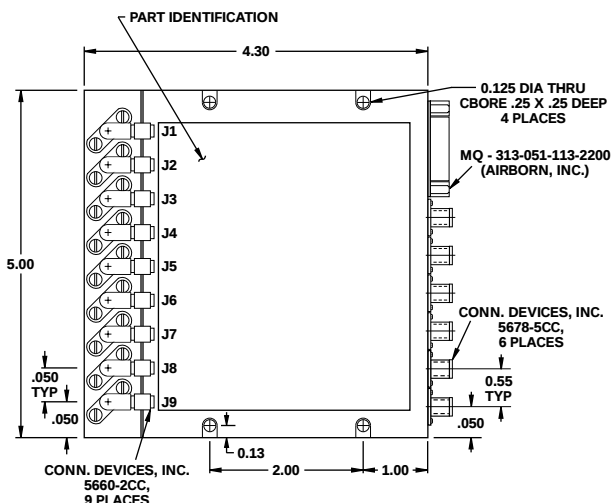
FEATURES

- 20 - 1000 MHz
- +90 dBm 2nd Order Intercept Point
- +50 dBm 3rd Order Intercept Point
- High Isolation
- TTL Drivers
- Replaceable SMA Connectors



MODEL NO.
CSWX6152

PIN Diode RF Switch Matrix



GUARANTEED PERFORMANCE

Parameter	Min	Typ	Max	Units	Conditions
Operating Frequency	20		1000	MHz	
DC Current		95 275	600 300	mA mA	At +5 VDC Supply At -5 VDC Supply
Control Type		CMOS			6 Line Control
Control Current	High Low			μ A μ A	$V_{IH} = +5V$ $V_{IL} = +0V$
Insertion Loss		2.5 1.0 2.3 1.0	3.5 1.3 3.5 1.3	dB dB dB dB	RF IN to RF OUT Path AUX IN to RF OUT Path RF IN to AUX OUT PARALLEL IN to AUX OUT
Isolation: RF IN to RF OUT Path	50 60 100	55 80 105		dB dB dB	On - Off Isolation (Except RF IN1 and RF IN4) Channel to Channel Isolation On - Off Isolation (For RF IN1 and RF IN4)
AUX IN to RF OUT Path	35	50		dB	On - Off Isolation
RF IN to AUX OUT	30	53		dB	On - Off Isolation
PARALLEL IN to AUX OUT	30	45		dB	On - Off Isolation
VSWR	Thru Termination	1.25/1 1.25/1	1.5/1 1.5/1		RF IN and AUX IN Only
Impedance		50		OHMS	
Switching Speed		2.5	5	μ Sec	50% TTL to 90% / 10% RF
Transition (Rise/Fall) Time				nSec	10% / 90% to 90% / 10% RF
Switching (Video) Transients				mV	Peak Value
Intercept Points	2nd 3rd	+60 +35	+90 +50	dBm dBm	70 MHz / 50 MHz 35 MHz / 50 MHz
RF Power	Operate No Damage		+20	dBm dBm	1.0 dB Compression
Operating Temperature	-20	+25	+85	$^{\circ}$ C	TA

