



**0.8-1.0 GHz SP6T PIN Diode Switch**  
**with internal Driver**  
**P/N MSS-06-0810-16S**

*Performance Specifications -10 to +60 °C*

<i>Parameter</i>	<i>Units</i>	<i>Min.</i>	<i>Typ.</i>	<i>Max.</i>	<i>Notes, Comments</i>
Frequency	GHz	0.8	-	1.0	
Insertion Loss	dB	-	1.0	1.4	
Isolation	dBc	40	50	-	
VSWR	Ratio	-	1.3:1	1.5:1	Switch is Reflective
Insertion Loss Tracking vs. Temp., Voltage, any Channel, any 4 MHz Band	dB		0.1	+/-0.5	
Insertion Loss Matching Between Channels	dB		0.1	0.5	
Insertion Phase Tracking vs. Temp., Voltage, any Channel, any 4 MHz Band	°		1	+/-2	
Insertion Phase Matching Between Channels. p-p	°		2	+/-10	
Switching Speed	us	-	0.5	5	50% control to 90% RF
Power Supply Voltage	V	+15			+/- 10%
Power Supply Current	ma		150	200	
RF Connectors		SMA - F, Type N			See Outline
Control, Power Terminals		12 Pin Round "O" Ring Seal			99-4607-80-12
Control Logic		RS422			See Truth Table
Surge/Lightning Protection		Dual Stage all power and control ports			
Size	inch	4.00 x 4.00 x 1.20			See Outline

*Absolute Maximum Ratings*

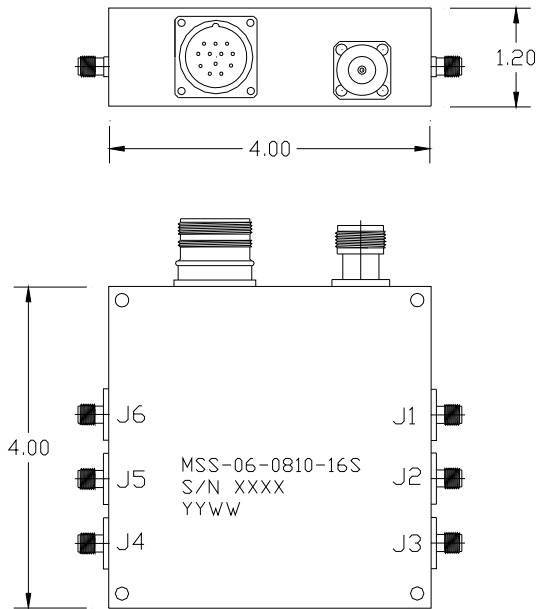
<i>Parameter</i>	<i>Units</i>	<i>Rating</i>	<i>Comments</i>
Power Dissipation	mw	500@ +25°C	De-Rate @ 3.3mW/°C
Survivability, CW Power	W	1.0 @ +25°C	
Supply Over voltage	%	25	

10/18/03



**P/N # MSS-06-810-16S**

*Outline Drawing*



*Connector Pin Assignment*

A	B	C	D	E	F	G	H	J
A0+	A0-	A1+	A1-	A2+	A2-	+15V	GND	GND

*Truth Table*

A2	A1	A0	RF
0	0	0	1
0	0	1	2
0	1	0	3
0	1	1	4
1	0	0	5
1	0	1	6

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