

Model 401, 8 x 3 Butler Matrix

The model 401 is an eight antenna element to three mode Butler Matrix modeforming network. The matrix generates modes 0,+1 and -1. The unit is not hermetically sealed and is intended for sheltered environments.

Electrical

Frequency Range	200 to 2000 MHz
Insertion Loss	3.5 dB (1 GHz) 4.25 dB (2 GHz)
Amplitude Unbalance (Error)	+/- 1.0 dB max. (0.2-1 GHz) +/- 1.5 dB max. (1-2 GHz)
Phase Unbalance (Error)	+/- 10 degrees max (0.2-1 GHz) +/- 16 degrees max. (1-2 GHz)
Return Loss	-14 dB max.
Power Handling	200 watts max.

Mechanical

Size	18" x 18" x 3"
RF Connectors	SMA female

Environmental

Temperature Range	-20 to +70 C
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Phase Distribution

<u>Input</u>	<u>Mode 0</u>	<u>Mode +1</u>	<u>Mode -1</u>
1	0	-135	0
2	0	180	+45
3	0	+135	+90
4	0	+90	+135
5	0	+45	180
6	0	0	-135
7	0	-45	-90
8	0	-90	-45

ARS Products LLC, North Grosvenordale, CT

Telephone: (860) 923-2596, Email: a_r_s_products@sbcglobal.net