

# PHASE SHIFTERS

(1) Frequency Range (MHz)	Insertion Loss (dB) max.	(1) Phase Shift (deg) min.	Control Voltage (Volts)	RF Input Power (dBm) max.	VSWR max.	P/N
10.2-11.3	1.3	180	0-30	0	1.70:1	ST-01-*
20.3-22.4	1.3	180	0-30	0	1.70:1	ST-02-*
28.5-31.5	1.3	180	0-30	0	1.70:1	ST-03-*
57.0-63.0	1.3	180	0-30	0	1.70:1	ST-04-*
66.5-73.5	1.3	180	0-30	0	1.70:1	ST-05-*
95.0-105	1.3	180	0-30	0	1.70:1	ST-06-*
133-147	1.5	180	0-30	0	1.70:1	ST-07-*
190-210	1.6	180	0-30	0	1.70:1	ST-08-*
285-315	1.7	180	0-30	0	1.70:1	ST-09-*
380-420	1.8	180	0-30	0	1.70:1	ST-10-*
810-830	2.1	180	0-30	0	1.70:1	ST-11-*
865-900	2.2	180	0-30	0	1.70:1	ST-12-*
935-960	2.2	180	0-30	0	1.70:1	ST-13-*
1425-1575	2.8	180	0-30	0	1.70:1	ST-14-*
1710-1735	2.8	180	0-30	0	1.70:1	ST-15-*
1805-1880	2.8	180	0-30	0	1.70:1	ST-16-*
10-20	2.0	180	0-30	0	1.70:1	SO-01-**
20-40	2.0	180	0-30	0	1.70:1	SO-02-**
40-80	2.0	180	0-30	0	1.70:1	SO-03-**
60-120	2.0	180	0-30	0	1.70:1	SO-04-**
100-190	2.0	180	0-30	0	1.70:1	SO-05-**
150-280	2.2	180	0-30	0	1.70:1	SO-06-**

\* Available in outline # 102, 105, 302, & 411

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SMA female connectors standard on outline # 411, refer to page 98 for more information.

Notes: Maximum input power is +5 dBm.

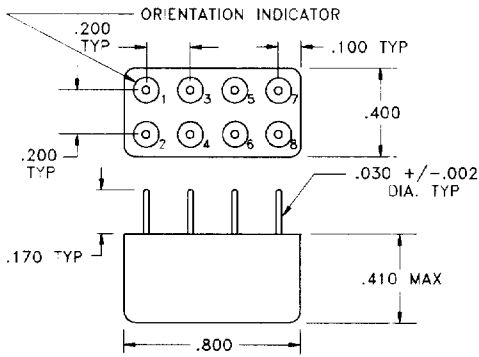
(1) Additional frequencies & phase shift ranges are available, consult factory.

### Port Configuration

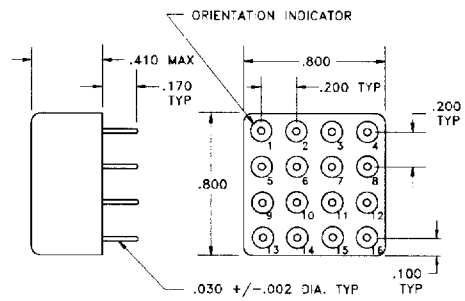
Outline	Input	Output	Control	Ground
102	1	2	8	3-7
105	1	13	4	2,3,5-12,14-16
302	14	7	1,8	2-6,9-13
411	1	3	2	Housing

**PULSAR** MICROWAVE CORPORATION

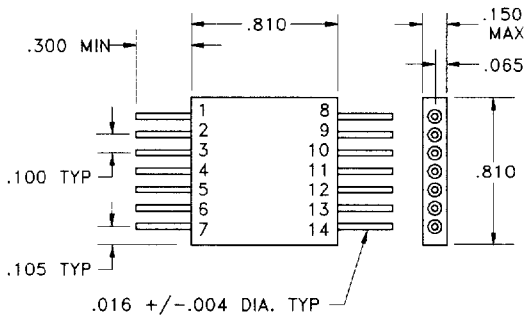
# PHASE SHIFTERS



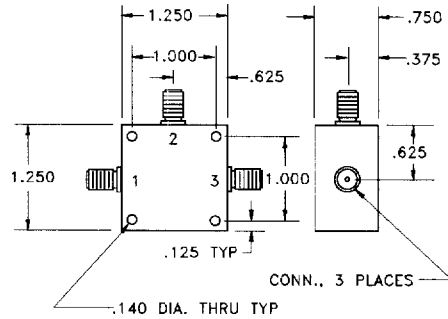
**Outline 102**



**Outline 105**



**Outline 302**



**Outline 411**