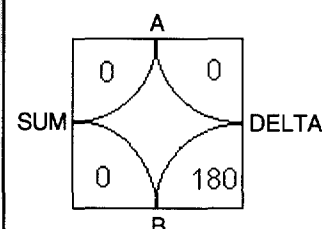


180° HYBRIDS - 3 PORT

Frequency Range (MHz)	Insertion Loss (dB) max.	Isolation A - B (dB) min.	(1) Amplitude Balance (dB) max.	Phase Balance (Deg) max.	VSWR max.	P/N
0.3-20	0.8	25	0.2	2.0	1.30:1	JT-01-*
5-200	1.2	25	0.3	4.0	1.30:1	JT-02-*
5-400	1.5	20	0.4	6.0	1.50:1	JT-03-*
200-400	1.0	20	0.7	7.0	1.30:1	JT-04-*
5-400	1.5	20	0.3	4.0	1.50:1	JT-05-*
20-1000	1.5	17	0.5	7.0	2.00:1	JT-06-*
40-850	1.5	20	0.5	4.0	1.50:1	JT-07-304

* Available in outline # 102, 301, 411, & A
SMA female connectors standard on outline # 411, refer to page 98 for more information.

Notes: (1) Amplitude balance is defined by input Sum or Delta to output A & B.
Higher power models available, consult factory.



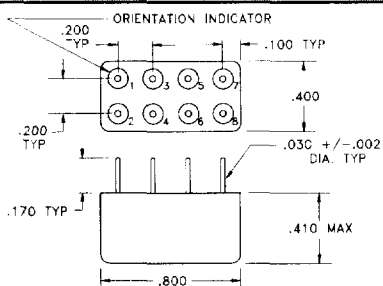
180° HYBRIDS - 4 PORT

Frequency Range (MHz)	Insertion Loss (dB) max.	Isolation A - B (dB) min.	(1) Amplitude Balance (dB) max.	Phase Balance (Deg) max.	VSWR max.	P/N
0.3-20	0.8	25	0.2	2.0	1.30:1	JF-01-*
5-200	1.2	25	0.3	4.0	1.30:1	JF-02-*
5-400	1.5	20	0.4	6.0	1.50:1	JF-03-*
200-400	1.0	20	0.5	7.0	1.50:1	JF-04-*

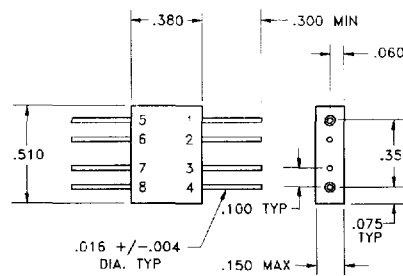
* Available in outline # 102, 301, 412, & B
SMA female connectors standard on outline # 412, refer to page 98 for more information.

Notes: (1) Amplitude balance is defined by input Sum or Delta to output A & B.
Higher power models available, please consult factory.

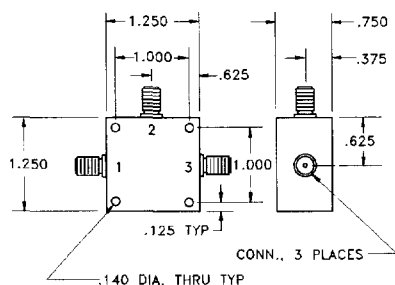
180° HYBRIDS



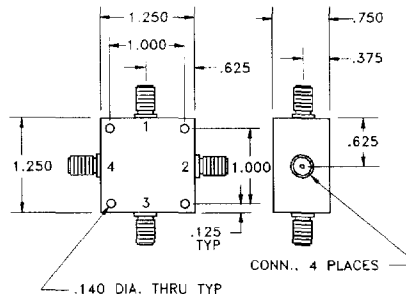
Outline 102



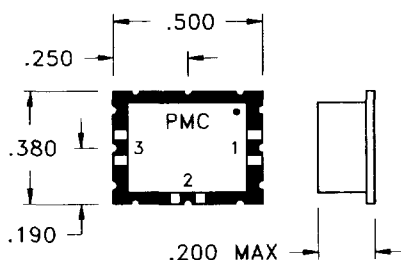
Outline 301



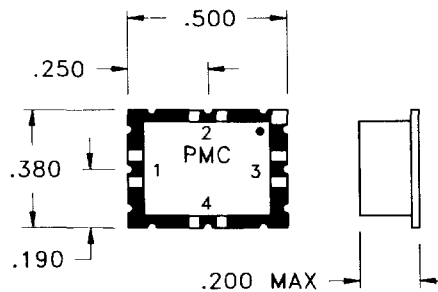
Outline 411



Outline 412



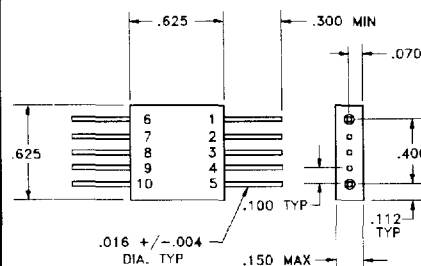
Outline A



Outline B

Port Configuration

Outline	Delta	Sum	A: 0°	B: 180°	Ground
102 - 3 Port	1	-	5	6	2-4,8
301 - 3 Port	1	-	4	8	2-3,6,5
411 - 3 Port	2	-	1	3	Housing
A - 3 Port	2	-	1	3	4 Corners
304 - 3 Port	5	-	10	6	1-4,7-9
102 - 4 Port	1	8	5	6	2-4,7
301 - 4 Port	1	8	4	5	2,3,6,7
412 - 4 Port	2	4	1	3	Housing
B - 4 Port	2	4	1	3	4 Corners



Outline 304

Hybrids
90° & 180°