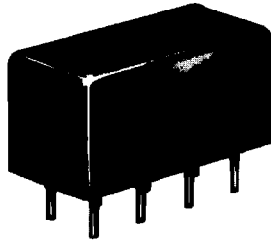


0/180°, 90°
COUPLERS, HYBRID
 1-500 MHz



1/180° Out of Phase Hybrid Coupler

GENERAL INFORMATION:

KDI/Triangle's lumped element 180° out of phase three port power dividers are internally terminated and are available in PC plug-in/connectorized.

GENERAL SPECIFICATIONS (Pin Package):

Temperature (Op): -55 to +100°C
VSWR: 1.25 Max.
Matched Power Rating: 1 Watt CW max.

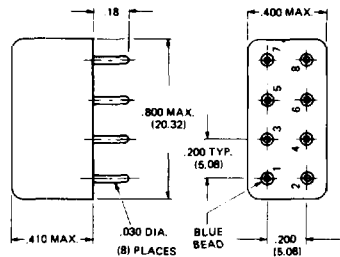
PERFORMANCE SPECIFICATIONS

Output Phase	Model	Frequency (MHz)	Ins. Loss (dB Max.)	Isolation (dB Min.)	Amp. Bal. (dB Max.)	Phase Balance
180°	JSP-210	1-500	2.0	18	0.5	3°
90°	QAP(*)	5-200(**)	0.4	23	1.0	3°
90°	QAP(*)	200-400(**)	0.5	20	1.0	3°

* Center Frequency in MHz

** 10% BW

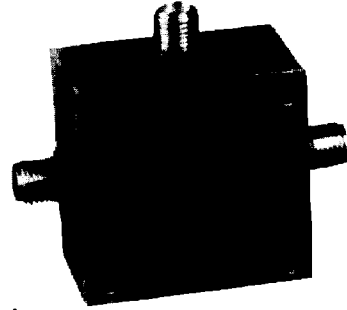
0/180° Hybrid Coupler



PIN CONNECTIONS

JSP-210	QAP SERIES
1 INPUT	1 INPUT
2 CASE GND	2 OUTPUT
3 CASE GND	3 CASE GND
4 CASE GND	4 CASE GND
5 OUTPUT	5 OUTPUT
6 OUTPUT	6 50 OHMS EXT LOAD
7 CASE GND	7 CASE GND
8 CASE GND	8 CASE GND

SERIES JSP, QAP
SERIES JSK, QAK



90° Hybrid Coupler

GENERAL INFORMATION:

These are also termed as 3 dB Quadrature Hybrids. KDI/Triangle's lumped element 90° power dividers are low cost four port networks covering a frequency range of 1-500 MHz and are available in PC plug-in/connectorized.

GENERAL SPECIFICATIONS (Connectorized):

Temperature (Op): -55 to +100°C
VSWR: 1.25 max.
Matched Power Rating: 1 Watt CW max.

SMA, BNC, TNC, AND TYPE N Connectors Available.

(last letter of Model = Connector type):

- M = SMA
- N = TYPE N
- B = BNC
- T = TNC

PERFORMANCE SPECIFICATIONS

Output Phase	Model	Frequency (MHz)	Ins. Loss (dB Max.)	Isolation (dB Min.)	Amp. Bal. (dB Max.)	Phase Balance
180°	JSK-210	1-500	2.0	20	0.5	3°
90°	QAK(*)	5-200(**)	0.4	23	1.0	3°
90°	QAK(*)	200-400(**)	0.5	20	1.0	3°

* Center Frequency in MHz

** 10% BW

90° Hybrid Coupler

