

2 Way-90° Power Splitter/Combiner

JSPQ-80+

Typical Performance Data

TEST CONDITIONS: INPUT POWER = 0dBm @Temperature = +25°C

FREQ. (MHz)	TOTAL LOSS ¹ (dB)			AMP. UNBAL. (dB)	PHASE UNBAL. (deg.)	ISOLATION (dB) 1-2	VSWR (:1)		
	S-1	S-2	AVG.				S	1	2
10	3.32	3.29	3.30	0.03	92.10	38.90	1.09	1.11	1.20
15	3.36	3.28	3.32	0.08	91.90	39.92	1.08	1.07	1.10
20	3.40	3.29	3.34	0.11	91.41	40.50	1.08	1.07	1.04
25	3.44	3.33	3.39	0.11	90.41	40.80	1.11	1.10	1.11
30	3.49	3.38	3.43	0.11	89.44	40.96	1.15	1.14	1.20
35	3.54	3.43	3.49	0.10	88.61	40.99	1.19	1.19	1.27
40	3.58	3.50	3.54	0.08	88.09	40.92	1.22	1.25	1.34
45	3.63	3.53	3.58	0.10	87.93	40.73	1.26	1.30	1.40
50	3.68	3.59	3.63	0.09	88.04	40.52	1.29	1.35	1.44
55	3.72	3.62	3.67	0.10	88.36	40.16	1.32	1.40	1.48
60	3.77	3.65	3.71	0.12	88.86	39.80	1.34	1.46	1.50
65	3.82	3.68	3.75	0.14	89.49	39.46	1.36	1.51	1.51
70	3.86	3.70	3.78	0.16	90.23	38.94	1.39	1.56	1.51
75	3.91	3.71	3.81	0.20	91.05	38.64	1.41	1.60	1.51
80	3.95	3.73	3.84	0.22	91.96	38.27	1.43	1.65	1.50
90	4.03	3.74	3.88	0.29	93.82	37.80	1.46	1.74	1.46
100	4.11	3.76	3.94	0.35	95.72	37.62	1.50	1.82	1.43
110	4.19	3.77	3.98	0.42	97.56	37.37	1.54	1.90	1.39
120	4.26	3.79	4.02	0.47	99.28	37.07	1.58	1.96	1.37

¹ Total Loss = Insertion Loss + 3dB Splitter Loss

REV. X2

JSPQ-80+

100721

Page 1 of 3

 **Mini-Circuits®**

IF/RF MICROWAVE COMPONENTS • ISO 9001 ISO 14001 AS 9100 CERTIFIED • RoHS compliant

P.O. Box 350166, Brooklyn, New York 11235-0003 (718) 934-4500 Fax (718) 332-4661



The Design Engineers Search Engine finds the model you need, Instantly • For detailed performance specs & shopping online see



2 Way-90° Power Splitter/Combiner

JSPQ-80+

Typical Performance Data

TEST CONDITIONS: INPUT POWER = 0dBm @Temperature = -40°C

FREQ. (MHz)	TOTAL LOSS ¹ (dB)			AMP. UNBAL. (dB)	PHASE UNBAL. (deg.)	ISOLATION (dB) 1-2	VSWR (:1)		
	S-1	S-2	AVG.				S	1	2
10	3.29	3.27	3.28	0.02	92.09	34.58	1.09	1.09	1.20
15	3.31	3.24	3.28	0.07	91.99	37.75	1.08	1.08	1.10
20	3.34	3.25	3.29	0.09	91.50	40.45	1.08	1.08	1.04
25	3.37	3.28	3.33	0.09	90.54	42.80	1.10	1.10	1.11
30	3.40	3.31	3.36	0.09	89.55	45.09	1.14	1.14	1.20
35	3.45	3.36	3.41	0.09	88.72	47.34	1.17	1.19	1.28
40	3.50	3.43	3.47	0.07	88.20	50.64	1.21	1.24	1.36
45	3.54	3.46	3.50	0.07	88.05	54.73	1.25	1.29	1.42
50	3.59	3.52	3.55	0.07	88.14	61.02	1.29	1.35	1.48
55	3.64	3.55	3.60	0.09	88.45	57.35	1.32	1.41	1.51
60	3.69	3.58	3.64	0.11	88.95	51.62	1.35	1.47	1.54
65	3.75	3.61	3.68	0.14	89.56	47.82	1.38	1.53	1.55
70	3.79	3.63	3.71	0.16	90.33	44.96	1.41	1.59	1.54
75	3.84	3.63	3.73	0.21	91.21	43.20	1.43	1.65	1.53
80	3.88	3.64	3.76	0.24	92.15	41.76	1.46	1.70	1.51
90	3.96	3.65	3.80	0.31	94.14	39.87	1.50	1.80	1.46
100	4.02	3.65	3.84	0.37	96.19	38.96	1.53	1.88	1.42
110	4.09	3.67	3.88	0.42	98.13	38.41	1.57	1.94	1.39
120	4.14	3.68	3.91	0.46	99.86	38.25	1.60	2.00	1.37

¹ Total Loss = Insertion Loss + 3dB Splitter Loss

REV. X2

JSPQ-80+

100721

Page 2 of 3



IF/RF MICROWAVE COMPONENTS • ISO 9001 ISO 14001 AS 9100 CERTIFIED RoHS compliant

P.O. Box 350166, Brooklyn, New York 11235-0003 (718) 934-4500 Fax (718) 332-4661



The Design Engineers Search Engine finds the model you need, Instantly • For detailed performance specs & shopping online see



2 Way-90° Power Splitter/Combiner

JSPQ-80+

Typical Performance Data

TEST CONDITIONS: INPUT POWER = 0dBm @ Temperature = +85°C

FREQ. (MHz)	TOTAL LOSS ¹ (dB)			AMP. UNBAL. (dB)	PHASE UNBAL. (deg.)	ISOLATION (dB) 1-2	VSWR (:1)		
	S-1	S-2	AVG.				S	1	2
10	3.38	3.35	3.37	0.03	91.82	35.15	1.09	1.09	1.22
15	3.42	3.34	3.38	0.08	91.68	34.95	1.07	1.04	1.11
20	3.47	3.36	3.41	0.11	91.26	34.78	1.09	1.05	1.06
25	3.51	3.41	3.46	0.10	90.31	34.60	1.13	1.09	1.13
30	3.56	3.46	3.51	0.10	89.32	34.37	1.17	1.14	1.22
35	3.62	3.53	3.58	0.08	88.47	34.13	1.21	1.20	1.30
40	3.66	3.59	3.63	0.07	87.93	33.94	1.25	1.25	1.35
45	3.71	3.63	3.67	0.08	87.78	33.73	1.28	1.31	1.40
50	3.76	3.68	3.72	0.08	87.86	33.57	1.30	1.36	1.43
55	3.81	3.71	3.76	0.10	88.20	33.42	1.32	1.41	1.45
60	3.85	3.73	3.79	0.12	88.74	33.38	1.34	1.45	1.47
65	3.89	3.76	3.82	0.13	89.38	33.40	1.36	1.49	1.48
70	3.93	3.78	3.86	0.15	90.15	33.37	1.37	1.53	1.49
75	3.98	3.80	3.89	0.18	90.98	33.50	1.39	1.58	1.49
80	4.02	3.81	3.91	0.21	91.83	33.63	1.40	1.62	1.49
90	4.11	3.84	3.97	0.27	93.62	34.11	1.43	1.70	1.48
100	4.19	3.85	4.02	0.34	95.43	34.78	1.47	1.79	1.45
110	4.29	3.87	4.08	0.42	97.23	35.27	1.51	1.88	1.42
120	4.38	3.90	4.14	0.48	98.93	35.36	1.56	1.97	1.39

¹ Total Loss = Insertion Loss + 3dB Splitter Loss

REV. X2

JSPQ-80+

100721

Page 3 of 3



IF/RF MICROWAVE COMPONENTS • ISO 9001 ISO 14001 AS 9100 CERTIFIED RoHS compliant

P.O. Box 350166, Brooklyn, New York 11235-0003 (718) 934-4500 Fax (718) 332-4661



The Design Engineers Search Engine finds the model you need, Instantly • For detailed performance specs & shopping online see

