

# 4 Way-Quadrifilar Power Splitter/Combiner

SCQ-4-1650+

## Typical Performance Data

FREQ. (MHz)	TOTAL LOSS <sup>1</sup> (dB)				AMP. UNBAL. (dB) S-4	INSERTION PHASE (Deg.) S-1	ISOLATION (dB)			PHASE UNBALANCE (Deg.)				FREQ. (MHz)	VSWR (:1)				
	S-1	S-2	S-3	S-4			1-2	2-3	3-4	@ 0° Port	@ 90° Port	@ 180° Port	@ 270° Port		S	1	2	3	4
1150.0	6.98	6.97	6.82	7.14	0.32	160.79	22.35	31.34	25.42	0.00	88.03	179.66	267.65	1150.0	1.09	1.03	1.04	1.07	1.02
1175.0	7.04	6.94	6.88	7.10	0.22	152.78	22.20	31.05	25.31	0.00	88.13	179.73	267.65	1175.0	1.10	1.03	1.05	1.07	1.02
1200.0	7.10	6.92	6.93	7.06	0.18	144.77	22.07	30.71	25.20	0.00	88.25	179.80	267.68	1200.0	1.10	1.03	1.06	1.07	1.02
1225.0	7.16	6.90	6.99	7.03	0.26	136.76	21.94	30.39	25.11	0.00	88.37	179.89	267.72	1225.0	1.11	1.03	1.06	1.07	1.03
1250.0	7.21	6.89	7.04	7.01	0.33	128.75	21.82	30.06	25.02	0.00	88.49	179.96	267.76	1250.0	1.11	1.03	1.07	1.07	1.03
1275.0	7.26	6.88	7.08	6.98	0.38	120.75	21.72	29.69	24.95	0.00	88.62	180.02	267.82	1275.0	1.11	1.03	1.07	1.08	1.04
1300.0	7.31	6.87	7.13	6.97	0.43	112.75	21.65	29.32	24.90	0.00	88.76	180.07	267.88	1300.0	1.11	1.04	1.08	1.08	1.04
1350.0	7.38	6.88	7.21	6.94	0.51	96.73	21.54	28.55	24.88	0.00	89.04	180.18	268.04	1350.0	1.11	1.04	1.09	1.09	1.05
1400.0	7.44	6.90	7.28	6.93	0.54	80.72	21.52	27.81	24.98	0.00	89.32	180.28	268.21	1400.0	1.12	1.05	1.10	1.10	1.06
1450.0	7.48	6.94	7.34	6.94	0.54	64.73	21.59	27.08	25.19	0.00	89.60	180.32	268.38	1450.0	1.12	1.06	1.10	1.11	1.07
1500.0	7.50	6.99	7.39	6.97	0.53	48.73	21.73	26.33	25.50	0.00	89.83	180.35	268.57	1500.0	1.14	1.06	1.11	1.12	1.07
1525.0	7.50	7.02	7.41	6.99	0.51	40.73	21.83	26.00	25.70	0.00	89.96	180.35	268.67	1525.0	1.15	1.07	1.11	1.13	1.08
1550.0	7.50	7.06	7.43	7.02	0.48	32.73	21.94	25.67	25.91	0.00	90.07	180.33	268.76	1550.0	1.16	1.07	1.11	1.13	1.08
1575.0	7.49	7.10	7.45	7.05	0.44	24.73	22.07	25.33	26.16	0.00	90.18	180.30	268.87	1575.0	1.18	1.07	1.11	1.14	1.08
1600.0	7.48	7.15	7.46	7.09	0.39	16.75	22.23	25.02	26.43	0.00	90.28	180.25	268.98	1600.0	1.20	1.08	1.11	1.14	1.09
1625.0	7.47	7.20	7.48	7.14	0.34	8.72	22.39	24.71	26.71	0.00	90.39	180.24	269.11	1625.0	1.21	1.08	1.11	1.14	1.09
1650.0	7.46	7.26	7.49	7.19	0.30	0.72	22.57	24.40	26.99	0.00	90.48	180.20	269.22	1650.0	1.23	1.08	1.11	1.14	1.10

<sup>1</sup>Total Loss = Insertion Loss + 6dB Splitter Loss



P.O. Box 350166, Brooklyn, New York 11235-0003 (718) 934-4500 • Fax (718) 332-4661 For detailed performance specs & shopping online see Mini-Circuits web site



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