

POWER SPLITTERS/COMBINERS (Hermetic)

DC to 2 GHz 50 Ω & 75 Ω



MODEL PREFIX	FREQUENCY (MHz) f_L - f_U	ISOLATION (dB)						INSERTION LOSS, (dB)						PHASE UNBALANCE DEGREES			AMPLITUDE UNBALANCE (dB)			RF POWER MAX (W)	
		L		M		U		L		M		U		L	M	U	L	M	U	Sum Port (Matched output ports)	Internal Dissipation
		Typ.	Min.	Typ.	Min.	Typ.	Min.	Typ.	Max.	Typ.	Max.	Typ.	Max.	Max.	Max.	Max.	Max.	Max.	Max.		

2 WAY - 0°

Insertion Loss Above 3 dB

PSC-2-2	0.004-60	27	20	30	20	27	20	0.3	0.6	0.3	0.6	0.6	1.0	2.0	3.0	4.0	0.15	0.25	0.3	1.0	0.125
PSC-2-1	0.1-400	20	15	25	20	25	20	0.2	0.6	0.4	0.75	0.6	1.0	2.0	3.0	4.0	0.15	0.20	0.3	1.0	0.125
TSC-2-1	1-400	30	25	30	25	30	20	0.25	0.5	0.4	0.75	0.8	1.0	2.0	3.0	4.0	0.15	0.20	0.6	1.0	0.125
MSC-2-1	0.1-450	20	15	30	20	30	20	0.3	0.5	0.4	0.75	0.6	1.0	2.0	3.0	4.0	0.15	0.20	0.3	1.0	0.125
PSC-2-1W	1-650	25	20	35	20	25	20	0.3	0.6	0.5	0.9	0.7	1.0	2.0	3.0	4.0	0.15	0.20	0.3	1.0	0.125
MSC-2-1W	2-650	22	18	30	20	22	18	0.3	0.5	0.5	0.8	0.8	1.2	1.0	2.0	4.0	0.30	0.20	0.3	1.0	0.125
PSC-2-45	700-900			20	17			0.2	0.4	0.2	0.4	0.2	0.4	3.0	3.0	3.0	0.20	0.20	0.20	1.0	0.125
PSC-2-4	10-1000	30	25	25	20	25	20	0.6	1.0	0.6	1.2	0.7	1.3	2.0	4.0	8.0	0.15	0.20	0.4	1.0	0.125
TSC-2-1W	200-1000	26	20	—	—	23	14	0.3	0.8	—	—	0.7	1.5	5.0	—	10.0	0.70	—	0.5	1.0	0.125
PSC-2-1000	400-1000	35	25	35	25	35	25	0.5	1.0	0.5	1.0	0.5	1.0	2.0	2.0	2.0	0.30	0.30	0.30	1.0	0.125
PSC-2-5	10-1400	28	18	22	17	24	17	0.3	0.6	0.6	1.0	0.9	1.6	2.0	3.0	4.0	0.15	0.20	0.4	1.0	0.125
MSC-2-5	5-1500	18	16	20	16	20	14	0.6	0.8	0.6	0.8	0.6	1.1	2.0	3.0	5.0	0.20	0.30	0.4	1.0	0.125
MSC-2-11	5-2000	18	16	20	16	18	11	0.6	0.8	0.6	0.8	1.2	1.8	2.0	3.0	5.0	0.20	0.30	0.5	1.0	0.125
PSC-2-11	5-2000	21	16	22	18	19	9	0.5	0.8	0.6	0.9	0.7	1.5	1.0	3.0	6.0	0.20	0.40	1.0	0.5	0.125
■ PSC-2-2-75	0.008-60	35	20	40	25	30	22	0.1	0.4	0.15	0.4	0.3	0.8	1.0	1.0	1.0	0.15	0.15	0.15	1.0	0.125
■ PSC-2-375	55-85	35	25	35	25	35	25	0.3	0.5	0.3	0.5	0.3	0.5	1.0	1.0	1.0	0.10	0.10	0.10	1.0	0.125
■ PSC-2-1-75A	1-200	35	27	46	35	36	25	0.1	0.3	0.2	0.4	0.35	0.6	1.0	1.0	2.0	0.10	0.15	0.15	1.0	0.125
■ PSC-2-1-75	0.25-300	20	15	30	20	20	15	0.4	0.75	0.4	0.75	0.4	1.0	2.0	3.0	5.0	0.15	0.20	0.3	1.0	0.125
■ PSC-2-4-752	10-850	31	20	32	23	23	15	0.3	0.5	0.4	0.6	0.5	1.0	2.0	5.0	10.0	0.10	0.20	0.5	1.0	0.125

2 WAY - 0° Resistive

Insertion Loss Above 6 dB

PRSC-2050	DC-2000	6.0	6.2	6.5				0.1	0.3	0.2	0.7	0.5	1.0	1.0	3.0	5.0	0.10	0.3	0.5	1.0	0.125
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2 WAY - 180°

Insertion Loss Above 3 dB

PSCJ-2-2	0.01-20	35	25	30	25	25	18	0.3	0.8	0.2	0.5	0.3	0.6	3.0	2.0	2.5	0.1	0.1	0.2	1.0	0.125
PSCJ-2-1	1-200	35	30	35	25	30	23	0.75	1.0	0.5	0.8	0.75	1.2	2.0	2.5	4.0	0.3	0.15	0.3	1.0	0.125
PSCJ-2-1W	100-600	30	20	30	20	30	20	1.0	1.9	1.0	1.9	1.0	1.9	6.0	6.0	6.0	0.5	0.5	0.5	0.5	0.125
■ PSCJ-2-1-75	1-200	35	30	31	25	26	20	0.6	1.2	0.8	1.2	1.2	1.8	2.0	4.0	6.0	0.25	0.2	0.5	1.0	0.125

2 WAY - 0°/180°

Insertion Loss Above 3 dB

PMT-1	5-200	22	20	24	20	24	18	0.8	1.0	0.9	1.1	1.0	1.5	2	4	8	0.1	0.2	0.5	1.0	0.125
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2 WAY - 90°

Average Insertion Loss Above 3 dB
Typ. Max.

Output ports
(Other ports
matched*)

PSCQ-2-0.455	0.42-0.51			30	25			0.1	0.5					3.0			1.2			1.0	0.5
PSCQ-2-1.25	1.13-1.38			29	25			0.4	0.7					3.0			1.2			1.0	0.5
PSCQ-2-3.4	3.0-3.8			30	25			0.4	0.7					3.8			1.2			1.0	0.5
PSCQ-2-4	3.5-4.5			36	25			0.4	0.7					3.0			1.5			1.0	0.5
PSCQ-2-7.5	7-8			30	25			0.4	0.7					3.0			1.2			1.0	0.5
PSCQ-2-8	2-8			36	27			0.3	0.7					6.0			0.5			0.05	0.025
PSCQ-2-10.5	9-11			25	20			0.4	0.7					3.0			1.2			1.0	0.5
PSCQ-2-13	12-14			29	25			0.4	0.7					3.0			1.2			1.0	0.5
PSCQ-2-14	12-16			30	25			0.3	0.6					3.0			1.8			1.0	0.5
PSCQ-2-21.4	20-23			30	25			0.4	0.7					3.0			1.2			1.0	0.5
PSCQ-2-26	14-30			25	20			0.4	0.7					3.0			1.5			1.0	0.5
PSCQ-2-32	3.2-32			32	25			0.4	0.8					5.0			0.4			0.05	0.025
PSCQ-2-40	23-40			21	18			0.3	0.7					3.0			1.5			1.0	0.5
PSCQ-2-51W	5-50			41	30			0.5	1.0					5.0			0.5			0.5	0.125
PSCQ-2-50	25-50			30	20			0.3	0.7					3.0			1.5			1.0	0.5
PSCQ-2-70	40-70			30	20			0.3	0.7					3.0			1.5			1.0	0.5
PSCQ-2-70N	66-74			22	19			0.2	0.5					0.8		0.25				1.0	0.5
PSCQ-2-85A	55-85			35	20			0.3	0.6					3.0			0.6			1.0	0.5
PQW-2-90	30-90			27	20			0.3	0.6					3.0			1.0			1.0	0.5
PSCQ-2-90	55-90			30	20			0.3	0.7					3.0			1.2			1.0	0.5
PSCQ-2-120	80-120			25	18			0.3	0.7					3.0			1.5			1.0	0.5
PSCQ-2-160	100-160			24	19			0.3	0.7					3.0			1.5			1.0	0.5
PSCQ-2-180	120-180			23	15			0.3	0.7					4.0			1.2			1.0	0.5
PSCQ-2-250	150-250			30	22			0.4	0.8					4.0			1.5			1.0	0.5
PQW-2-270	90-270			20	17			0.4	0.7					4.0			1.4			1.0	0.5
PSCQ-2-400	250-400			23	16			0.5	0.9					4.0			1.5			1.0	0.5
PSCQ-2-450	350-450			23	16			0.5	0.9					5.0			1.5			1.0	0.5
PSCQ-2-550	450-550			19	15			0.4	0.7					5.0			1.5			1.0	0.5
PSCQ-2-1000	800-1000			27	20			0.28	0.6					3.0			1.3			1.0	0.5

■ 75 Ω

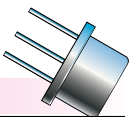
* Limited by the rating of external termination.

L = low range (f_L to $10f_L$)

M = mid range ($10f_L$ to $f_U/2$)

U = upper range ($f_U/2$ to f_U)





POWER SPLITTERS/COMBINERS (Hermetic)

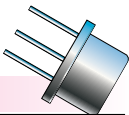
10 kHz to 1 GHz 50 Ω & 75 Ω



MODEL PREFIX	FREQUENCY (MHz)	ISOLATION (dB)						INSERTION LOSS, (dB)						PHASE UNBALANCE DEGREES			AMPLITUDE UNBALANCE (dB)			RF POWER MAX (W)	
		L		M		U		L		M		U		L	M	U	L	M	U	Sum Port (Matched output ports)	Internal Dissipation
	f_L - f_U	Typ.	Min.	Typ.	Min.	Typ.	Min.	Typ.	Max.	Typ.	Max.	Typ.	Max.	Max.	Max.	Max.	Max.	Max.	Max.		
3 WAY - 0°																					
Insertion Loss Above 4.8 dB																					
PSC-3-2	0.01-30	35	30	40	25	30	25	0.25	0.45	0.15	0.45	0.45	0.75	1	2	4	0.2	0.3	0.4	1.0	0.375
PSC-3-13-39	0.5-50	47	33	46	35	40	33	0.15	0.4	0.15	0.4	0.15	0.4	1	1	2	0.1	0.1	0.1	1.0	0.375
PSC-3-1	1-200	45	30	40	30	40	25	0.6	1.0	0.4	0.7	0.6	1.0	1	2	4	0.15	0.2	0.3	1.0	0.375
PSC-3-13	1-200	45	35	45	30	37	30	0.25	0.5	0.35	0.6	0.35	0.8	1	3	4	0.1	0.2	0.2	1.0	0.375
PSC-3-1A	1-300	38	30	33	23	29	22	0.2	0.5	0.2	0.7	0.6	1.5	1	3	5	0.2	0.3	0.6	1.0	0.375
PSC-3-1W	5-600	25	20	31	15	25	15	0.4	0.8	0.4	1.4	0.8	1.4	2	3	5	0.1	0.3	0.6	1.0	0.375
MSC-3-1W	50-750	22	18	—	—	22	17	0.4	1.0	—	—	0.9	1.5	4	—	7	0.4	—	0.7	1.0	0.18
■ PSC-3-1-75	1-200	35	23	35	25	35	25	0.6	1.0	0.3	0.7	0.6	1.0	2	3	4	0.15	0.2	0.3	1.0	0.375
4 WAY - 0°																					
Insertion Loss Above 6 dB																					
PSC-4-6	0.01-40	35	18	32	25	25	18	0.4	0.8	0.3	0.5	0.5	1.0	2	2	2	0.1	0.15	0.2	1.0	0.250
PSC-4-1	0.1-200	33	20	30	20	27	20	0.4	0.6	0.5	0.75	0.7	1.0	4	6	8	0.15	0.2	0.25	1.0	0.250
PSC-4-3	0.25-250	33	20	30	20	27	20	0.4	0.7	0.5	0.75	0.7	1.2	4	6	8	0.15	0.2	0.25	1.0	0.250
PSC-4-1W	1-500	29	20	27	18	25	18	0.4	0.8	0.5	1.0	0.8	1.5	1	3	5	0.2	0.3	0.5	0.5	0.250
PSC-4-5	1-800	29	20	24	18	25	17	0.4	0.8	0.6	1.5	1.3	2.5	1	4	5	0.2	0.5	0.6	0.5	0.250
PSC-4A-4	10-1000	25	20	21	15	18	15	0.5	0.8	0.8	1.8	1.5	2.5	4	16	20	0.2	0.5	0.7	1.0	0.250
■ PSC-4-1-75	1-200	30	20	25	20	25	20	0.4	0.7	0.5	0.9	0.7	1.2	2	3	4	0.15	0.2	0.3	1.0	0.250
■ PSC-4A-1W-75	30-600	27	20	—	—	22	18	0.6	0.8	—	—	0.8	1.1	2	—	5	0.2	—	0.5	1.0	0.250
5 WAY - 0°																					
Insertion Loss Above 7 dB																					
PSC-5-1	1-300	25	20	23	18	20	17	0.2	0.5	0.6	1.0	1.5	2.0	2	4	8	0.2	0.3	0.6	1.0	0.5
PSC-5-2	250-750	22	17	22	17	22	17	1.1	2.5	1.1	2.5	1.1	2.5	14	14	14	0.7	0.7	0.7	2.0	0.625
■ PSC-5-1-75	1-300	35	20	30	18	25	17	0.4	0.6	0.6	0.9	0.9	1.3	2	4	8	0.2	0.3	0.6	1.0	0.5
6 WAY - 0°																					
Insertion Loss Above 7.8 dB																					
PSC-6-1	1-175	35	25	30	23	25	18	0.6	1.2	0.6	1.1	0.6	1.3	2	4	8	0.2	0.3	0.6	1.0	0.5
■ PSC-6-1-75	1-300	35	25	30	23	25	18	0.6	1.2	0.6	1.1	0.6	1.3	2	4	8	0.2	0.3	0.6	1.0	0.5

■ 75 Ω

L = low range (f_L to $10f_L$) M = mid range ($10f_L$ to $f_U/2$) U = upper range ($f_U/2$ to f_U)



PSC-8A, 9, 10, 12
Case E10



MODEL PREFIX	FREQUENCY (MHz) f_L - f_U	ISOLATION (dB)						INSERTION LOSS, (dB)						PHASE UNBALANCE DEGREES			AMPLITUDE UNBALANCE (dB)			RF POWER MAX (W)	
		L		M		U		L		M		U		L	M	U	L	M	U	Sum Port (Matched output ports)	Internal Dissipation
		Typ.	Min.	Typ.	Min.	Typ.	Min.	Typ.	Max.	Typ.	Max.	Typ.	Max.	Max.	Max.	Max.	Max.	Max.	Max.		
8 WAY - 0°																					
										<i>Insertion Loss Above 9 dB</i>											
PSC-8-6	0.01-10	40	20	40	25	28	23	0.3	1.0	0.5	1.0	0.6	1.1	4.0	2.5	4.0	0.4	0.2	0.3	1.0	0.62
PSC-8-1	0.5-175	30	25	30	20	25	18	0.8	1.2	0.8	1.2	1.0	1.6	1.0	2.5	5.0	0.2	0.3	0.5	1.0	0.62
PSC-8A-4	5-500	25	20	23	18	20	15	0.7	1.2	1.0	1.8	1.4	2.5	3.0	8.0	16.0	0.2	0.3	0.5	1.0	0.62
PSC-8-1W	10-600	25	20	23	16	20	16	1.0	1.8	1.2	2.2	1.7	2.8	2.0	4.0	10.0	0.3	0.6	0.9	1.0	0.62
■ PSC-8-1-75	0.5-175	25	20	30	20	25	20	0.5	1.1	0.6	1.1	0.7	1.3	2.0	2.5	5.0	0.2	0.2	0.3	1.0	0.62
■ PSC-8A4-75	1-300	26	20	30	25	30	23	0.8	1.2	0.7	1.1	0.9	1.3	1.0	3.0	8.0	0.2	0.2	0.4	1.0	0.62

9 WAY - 0°																					
										<i>Insertion Loss Above 9.6 dB</i>											
PSC-9-1	2-300	38	25	26	20	22	15	0.6	1.1	0.9	1.4	1.5	2.0	2.0	5.0	10.0	0.2	0.3	0.8	0.5	1.5

10 WAY - 0°																					
										<i>Insertion Loss Above 10 dB</i>											
PSC-10-1	1-150	36	23	27	23	23	18	0.3	0.6	0.4	0.8	1.0	1.3	3	6	10	0.2	0.3	0.4	1.0	0.87

12 WAY - 0°																					
										<i>Insertion Loss Above 10.8 dB</i>											
PSC-12-1	1-200	35	30	27	20	21	18	0.5	0.8	0.8	1.2	1.0	1.4	4	8	16	0.2	0.4	0.7	1.0	0.87

■ 75 Ω

L = low range (f_L to $10f_L$) M = mid range ($10f_L$ to $f_U/2$) U = upper range ($f_U/2$ to f_U)