

Non-Catalog Model

Power Splitter/Combiner

PSCQ-2-300

2 Way-90°

Important Note

This is a non-catalog model and can be manufactured on specific request.
Pricing and delivery information can be supplied upon request.

Please click "Back", and then click "Contact Us" for Applications support.



CASE STYLE : A01

ELECTRICAL SPECIFICATIONS 50Ω @ +25°C				
Parameter		Min.	Typ.	Max. Units
Frequency		220		300 MHz
Isolation	220 - 300 MHz	20	27	
Insertion Loss				
Average of Coupled Outputs	220 - 300 MHz		0.30	0.70 dB
above 3.0 dB				
Phase Unbalance	220 - 300 MHz		0.993	3.000 deg.
Amplitude Unbalance	220 - 300 MHz		0.228	1.300 dB
VSWR	SUM Port		1.10	(:1)
	OUT Ports		1.12	(:1)

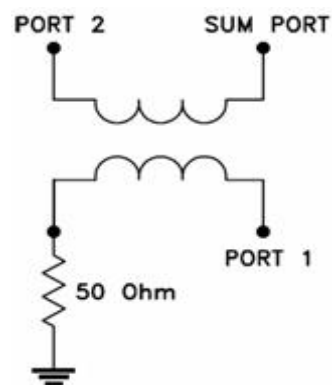
Notes: Matched power rating: 1 Watt.

Internal load dissipation: 0.125 Watt.

MAXIMUM RATINGS	
Operating Temperature	-55°C to 85°C
Storage Temperature	-55°C to 100°C

PIN CONNECTIONS	
SUM PORT	1
PORT 1	2
PORT 2	5
GND EXT	3, 4, 7, 8
50Ω TERMINATION	6

Functional Diagram



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Typical Performance Data

FREQ. (MHz)	TOTAL LOSS ¹ (dB)			AMP. UNBAL. (dB)	ISOLATION (dB)	PHASE UNBAL. (deg.)	FREQ. (MHz)	VSWR (:1)		
	S-1	S-2	AVG.					S	1	2
220.0	3.67	2.83	3.25	0.84	24.52	88.74	220.0	1.11	1.17	1.12
222.0	3.65	2.86	3.26	0.79	24.57	88.78	222.0	1.11	1.17	1.11
224.0	3.64	2.90	3.27	0.74	24.63	88.83	224.0	1.11	1.16	1.11
226.0	3.63	2.93	3.28	0.70	24.70	88.87	226.0	1.11	1.16	1.11
228.0	3.62	2.96	3.29	0.66	24.76	88.87	228.0	1.11	1.16	1.11
230.0	3.61	3.00	3.31	0.60	24.83	88.93	230.0	1.11	1.16	1.11
232.0	3.59	3.03	3.31	0.56	24.89	88.92	232.0	1.11	1.16	1.11
234.0	3.58	3.07	3.33	0.51	24.95	88.94	234.0	1.11	1.16	1.11
236.0	3.57	3.10	3.34	0.47	25.03	88.92	236.0	1.11	1.16	1.11
238.0	3.56	3.13	3.35	0.43	25.09	88.89	238.0	1.11	1.16	1.11
240.0	3.55	3.16	3.36	0.39	25.16	88.91	240.0	1.10	1.16	1.10
242.0	3.53	3.18	3.36	0.35	25.22	88.91	242.0	1.10	1.15	1.10
244.0	3.51	3.20	3.36	0.32	25.29	88.85	244.0	1.10	1.15	1.10
246.0	3.49	3.21	3.35	0.28	25.36	88.89	246.0	1.10	1.15	1.10
248.0	3.47	3.22	3.35	0.25	25.42	88.84	248.0	1.10	1.15	1.10
250.0	3.46	3.23	3.35	0.23	25.48	88.85	250.0	1.10	1.15	1.10
252.0	3.43	3.24	3.34	0.20	25.55	88.86	252.0	1.10	1.15	1.10
254.0	3.41	3.23	3.32	0.18	25.62	88.86	254.0	1.10	1.15	1.10
256.0	3.40	3.24	3.32	0.15	25.69	88.84	256.0	1.10	1.15	1.10
258.0	3.38	3.25	3.32	0.13	25.75	88.92	258.0	1.10	1.14	1.09
260.0	3.36	3.25	3.31	0.10	25.82	88.92	260.0	1.10	1.14	1.09
262.0	3.34	3.25	3.30	0.08	25.90	89.03	262.0	1.09	1.14	1.09
264.0	3.32	3.26	3.29	0.05	25.97	89.08	264.0	1.09	1.14	1.09
266.0	3.30	3.28	3.29	0.02	26.06	89.12	266.0	1.09	1.14	1.09
268.0	3.29	3.29	3.29	0.00	26.15	89.15	268.0	1.09	1.14	1.09
270.0	3.27	3.30	3.29	0.03	26.23	89.20	270.0	1.09	1.14	1.09
272.0	3.26	3.31	3.29	0.05	26.34	89.21	272.0	1.09	1.13	1.09
274.0	3.25	3.33	3.29	0.08	26.42	89.27	274.0	1.09	1.13	1.08
276.0	3.23	3.34	3.29	0.10	26.53	89.25	276.0	1.09	1.13	1.08
278.0	3.23	3.35	3.29	0.13	26.63	89.23	278.0	1.09	1.13	1.08
280.0	3.22	3.37	3.30	0.15	26.74	89.23	280.0	1.09	1.13	1.08
282.0	3.21	3.38	3.30	0.17	26.84	89.19	282.0	1.09	1.13	1.08
284.0	3.20	3.39	3.30	0.19	26.94	89.20	284.0	1.09	1.13	1.08
286.0	3.19	3.40	3.30	0.21	27.06	89.17	286.0	1.08	1.12	1.08
288.0	3.18	3.40	3.29	0.22	27.19	89.13	288.0	1.08	1.12	1.08
290.0	3.18	3.40	3.29	0.22	27.29	89.11	290.0	1.08	1.12	1.07
292.0	3.17	3.40	3.29	0.23	27.41	89.07	292.0	1.08	1.12	1.07
294.0	3.16	3.41	3.29	0.24	27.54	89.05	294.0	1.08	1.12	1.07
296.0	3.16	3.40	3.28	0.24	27.64	89.07	296.0	1.08	1.12	1.07
298.0	3.16	3.41	3.29	0.25	27.78	89.09	298.0	1.08	1.12	1.07
300.0	3.16	3.41	3.29	0.25	27.92	89.08	300.0	1.08	1.11	1.07

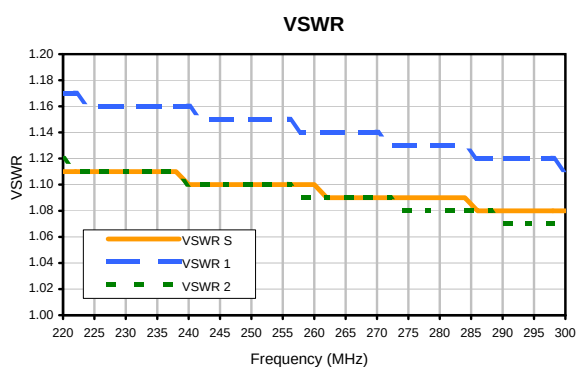
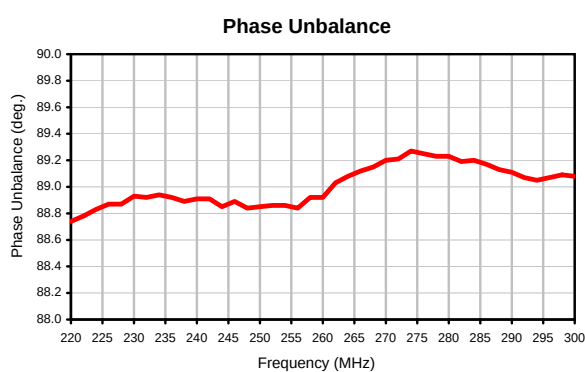
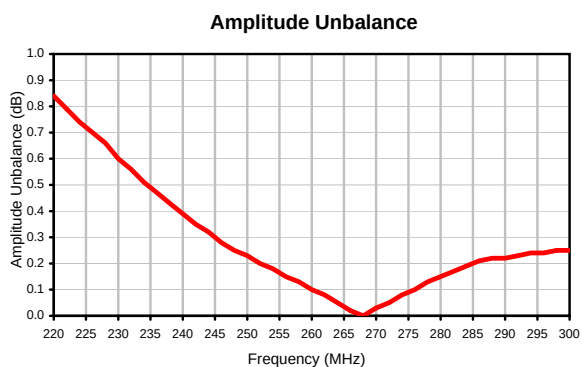
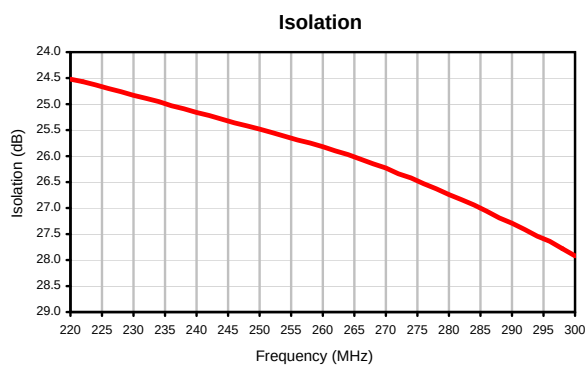
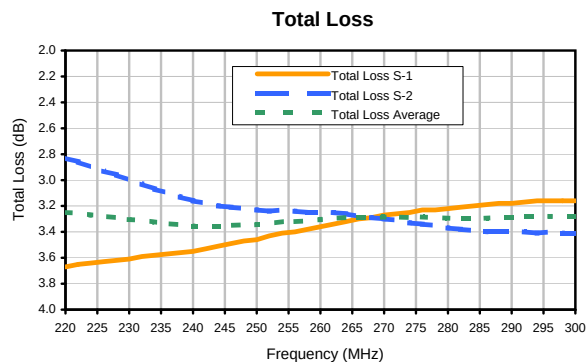
¹ Total Loss = Insertion Loss + 3dB Splitter Loss

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2 Way-90° Power Splitter/Combiner

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Typical Performance Curves



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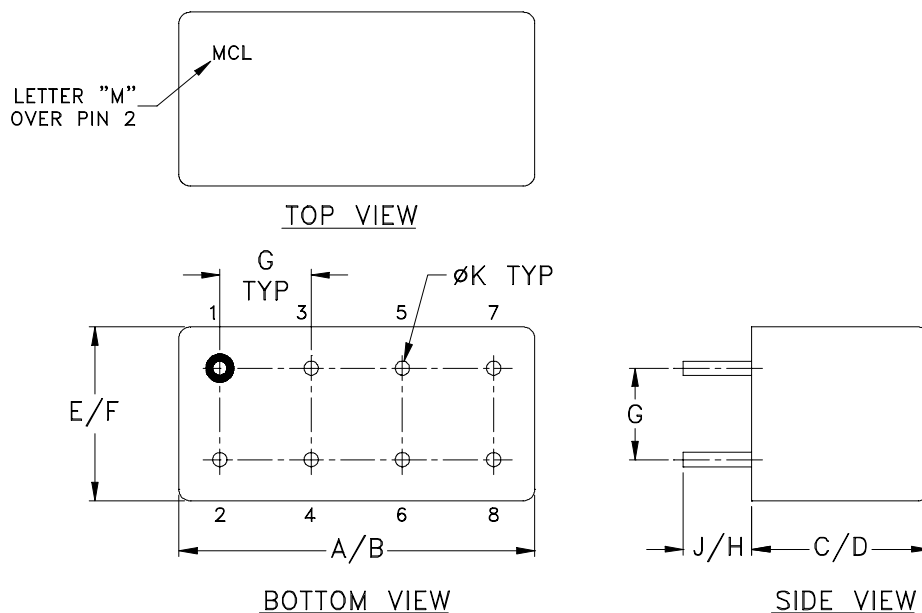
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A01
A04
A05
A06

Outline Dimensions



CASE#	A	B	C	D	E	F	G	H	J	K	WT, GRAM
A01	.770 (19.56)	.800 (20.32)	.385 (9.78)	.400 (10.16)	.370 (9.40)	.400 (10.16)	.200 (5.08)	.20 (5.08)	.14 (3.56)	.031 (.79)	5.2
A04			.200 (5.08)	.210 (5.33)							3.7
A05			.240 (6.10)	.250 (6.35)							3.7
A06			.285 (7.24)	.310 (7.87)							5.2

Dimensions are in inches (mm). Tolerances: 2 Pl. $\pm .03$; 3 Pl. $\pm .015$

Notes:

- Header material: C.R.S.
Pin material: #52 alloy.
Cover material: Cupro-Nickel.
- Pin finish: Electro Tin-Silver.
- Insulated spacer available. Request P/N B14-045-01.
- Tolerance on pin diameter $\pm .005$ inch.
- Glass meniscus 0.015 inch max.
- Blue bead indicates Pin 1. Pin numbers do not appear on unit, for reference only.



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