Plug-In

Power Splitter/Combiner

PSCQ-2-26+
PSCQ-2-26

2 Way-90° 50Ω 14 to 30 MHz

Generic photo used for illustration purposes only

CASE STYLE: A01

+RoHS Compliant
The +Suffix identifies RoHS Compliance. See our web site for RoHS Compliance methodologies and qualifications

Maximum Ratings

Operating Temperature	-55°C to 100°C
Storage Temperature	-55°C to 100°C
Power Input (as a splitter)	1W max.

Permanent damage may occur if any of these limits are exceeded.

Pin Connections

SUM PORT	1
PORT 1 (+90°)	2
PORT 2 (0°)	5
GROUND	3,4,7,8
CASE GROUND	3,4,7,8
50 OHM TERM EXTERNAL	6

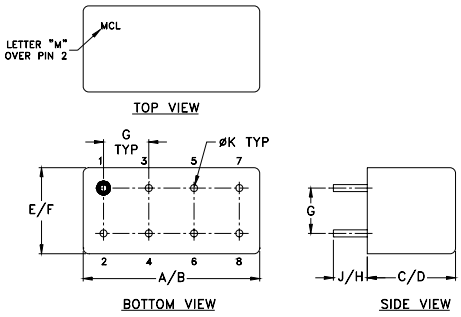
Features

- low insertion loss, 0.4 dB typ.
- good isolation, 25 dB typ.
- excellent VSWR, 1.15:1 typ.
- rugged shielded case

Applications

- modulators
- balanced amplifiers

Outline Drawing



Outline Dimensions (inch / mm)

A	B	C	D	E	F
.770	.800	.385	.400	.370	.400
19.56	20.32	9.78	10.16	9.40	10.16
G	**H**	**J**	**K**		**wt**
.200	.20	.14	.031		grams
5.08	5.08	3.56	0.79		5.2

Electrical Specifications

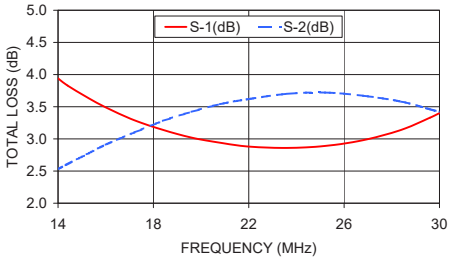
FREQ. RANGE (MHz)	ISOLATION (dB)		INSERTION LOSS (dB) Avg. of Coupled Outputs ABOVE 3 dB		PHASE UNBALANCE (Degrees)	AMPLITUDE UNBALANCE (dB)
f_L-f_U	Typ.	Min.	Typ.	Max.	Max.	Max.
14-30	25	20	0.4	0.7	3	1.5

Typical Performance Data

Frequency (MHz)	Total Loss[1] (dB)		Amplitude Unbalance (dB)	Isolation (dB)	Phase Unbalance (deg.)	VSWR S	VSWR 1	VSWR 2
	S-1	S-2						
14.00	3.94	2.53	1.41	39.77	89.46	1.03	1.04	1.02
14.40	3.83	2.61	1.22	39.95	89.49	1.03	1.05	1.02
15.20	3.65	2.76	0.89	40.33	89.50	1.03	1.05	1.02
16.00	3.49	2.91	0.58	40.81	89.57	1.04	1.05	1.02
17.20	3.29	3.10	0.19	41.79	89.55	1.04	1.05	1.02
18.40	3.14	3.28	0.14	43.06	89.62	1.04	1.05	1.02
19.60	3.02	3.42	0.40	44.86	89.68	1.04	1.06	1.02
20.80	2.94	3.54	0.60	47.48	89.77	1.05	1.06	1.02
22.00	2.88	3.62	0.74	50.42	89.86	1.05	1.06	1.03
23.60	2.86	3.70	0.84	48.51	90.03	1.06	1.07	1.03
25.20	2.89	3.72	0.83	42.61	90.29	1.07	1.08	1.04
26.80	2.98	3.67	0.69	37.92	90.63	1.08	1.09	1.05
28.40	3.14	3.58	0.43	34.01	91.08	1.10	1.10	1.06
29.60	3.33	3.46	0.13	31.47	91.54	1.12	1.11	1.07
30.00	3.40	3.42	0.02	30.67	91.70	1.13	1.12	1.07

1. Total Loss = Insertion Loss + 3dB splitter loss.

PSCQ-2-26
TOTAL LOSS



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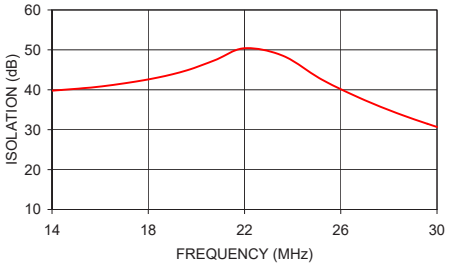
ISOLATION



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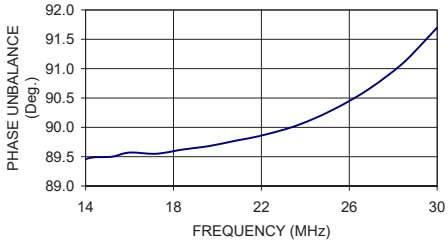
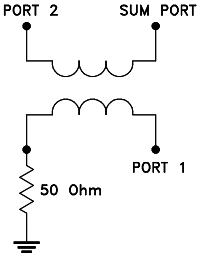
PHASE UNBALANCE



electrical schematic



Notes

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