Surface-Mount

Power Splitter/Combiner

2 Way-90°, 50Ω, 55 to 90 MHz

NEW!

ADQ-90

CASE STYLE: CJ725
PRICE: $6.95 ea.
QTY. (1-9)

Maximum Ratings

Operating Temperature	-40°C to 85°C
Storage Temperature	-55°C to 100°C
Power Input (as a splitter)	0.5W max.

Features

- good isolation, 26 dB typ.
- good input port matching VSWR, 1.12 typ.
- good output port matching VSWR, 1.10 typ.
- small surface mount package

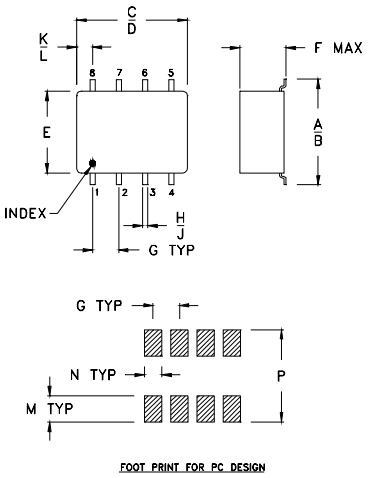
Pin Configuration

SUM PORT	1
PORT 1	8
PORT 2	4
50 OHM TERM.	5
GROUND	2,3,6,7

Applications

- image rejection mixer
- IF signal processing

Outline Drawing



Outline Dimensions (inch / mm)

A	B	C	D	E	F	G
.345	.400	.385	.435	.310	.215	.100
8.76	10.16	9.78	11.05	7.87	5.46	2.54

H	J	K	L	M	N	P	wt.
.010	.055	.035	.075	.120	.060	.420	grams
0.51	0.89	1.52	10.67	3.05	1.52	10.67	.45

Electrical Specifications

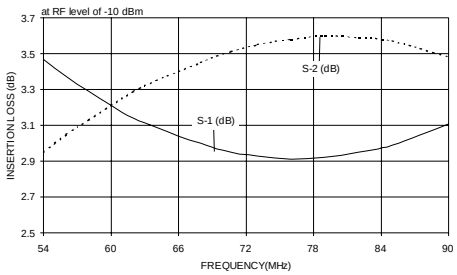
FREQ. RANGE (MHz)	ISOLATION (dB)			INSERTION LOSS (dB) ABOVE 3.0 dB			PHASE UNBALANCE (Degrees)			AMPLITUDE UNBALANCE (dB)		
f_L-f_U	L Typ. Min.	M✪ Typ. Min.	U Typ. Min.	L Typ. Max.	M✪ Typ. Max.	U Typ. Max.	L Max.	M✪ Max.	U Max.	L Max.	M✪ Max.	U Max.
55-90	— —	26 20	— —	— —	0.2 0.7	— —	—	4	—	—	1.2	—

✪ When only specification for M range given, specification applies to entire frequency range.

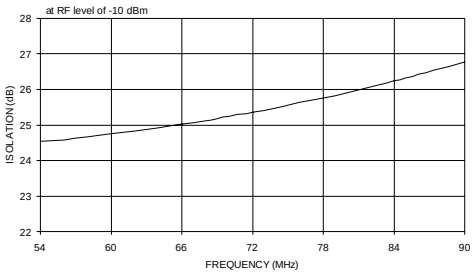
Typical Performance Data

Frequency (MHz)	Insertion Loss (dB) S-1	Insertion Loss (dB) S-2	Amplitude Unbalance (dB)	Isolation (dB)	Phase Unbalance (deg.)	VSWR S	VSWR 1	VSWR 2
54.00	3.47	2.95	0.53	24.54	0.42	1.11	1.13	1.11
56.00	3.37	3.05	0.33	24.59	0.38	1.11	1.13	1.11
58.00	3.29	3.13	0.16	24.67	0.33	1.11	1.13	1.11
60.00	3.21	3.21	0.00	24.75	0.33	1.11	1.13	1.11
62.00	3.14	3.29	0.14	24.83	0.27	1.11	1.13	1.11
64.00	3.09	3.35	0.26	24.92	0.24	1.10	1.13	1.10
66.00	3.04	3.40	0.37	25.02	0.23	1.10	1.13	1.10
68.00	3.00	3.45	0.46	25.12	0.13	1.10	1.13	1.10
70.00	2.96	3.50	0.54	25.25	0.12	1.09	1.13	1.10
73.00	2.93	3.55	0.62	25.42	0.02	1.09	1.14	1.10
76.00	2.91	3.58	0.67	25.64	0.08	1.08	1.14	1.10
79.00	2.92	3.6	0.67	25.83	0.20	1.08	1.14	1.10
82.00	2.95	3.59	0.64	26.06	0.33	1.08	1.14	1.10
85.00	2.99	3.57	0.58	26.32	0.49	1.07	1.15	1.11
90.00	3.11	3.48	0.37	26.77	0.75	1.06	1.16	1.11

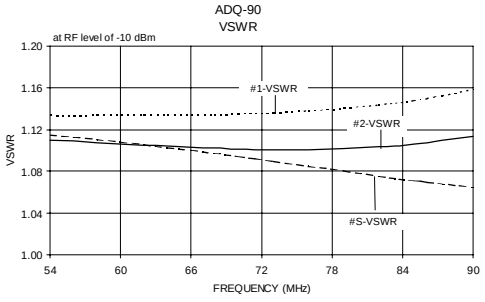
ADQ-90
INSERTION LOSS



ADQ-90
ISOLATION



ADQ-90
VSWR



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DY/TD/CP
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