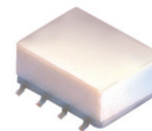


Surface Mount Power Splitter/Combiner

2 Way-90° 50Ω 104 to 340 MHz

ADQ-32W+



CASE STYLE: CJ725
PRICE: \$10.95 ea. QTY (1-9)

+ RoHS compliant in accordance with EU Directive (2002/95/EC)

The +Suffix has been added in order to identify RoHS Compliance. See our web site for RoHS Compliance methodologies and qualifications.

Maximum Ratings

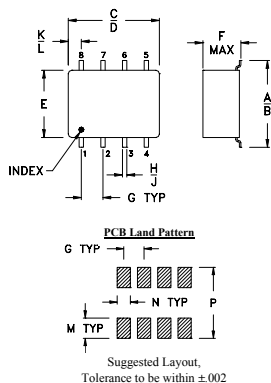
Operating Temperature	-40°C to 85°C
Storage Temperature	-55°C to 100°C
Power Input (as a splitter)	0.5W max.

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

Pin Connections

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

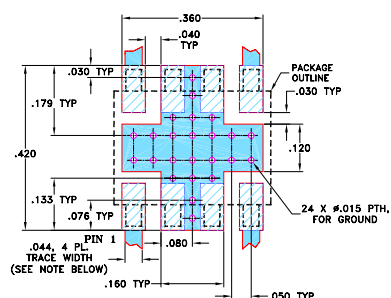
Outline Drawing



Outline Dimensions (inch/mm)

A	B	C	D	E	F	G	H	J	K	L	M	N	P	wt
.345	.400	.385	.435	.310	.215	.100	.015	.025	.035	.075	.120	.060	.420	grams
8.76	10.16	9.78	11.05	7.87	5.46	2.54	0.38	0.64	0.89	1.91	3.05	1.52	10.67	0.45

Demo Board MCL P/N: TB-83 Suggested PCB Layout (PL-063)



- NOTES: 1. TRACE WIDTH IS SHOWN FOR ROGERS RO4350B WITH DIELECTRIC THICKNESS 0.020" ± 0.0015". COPPER: 1/2 OZ. EACH SIDE. FOR OTHER MATERIALS TRACE WIDTH MAY NEED TO BE MODIFIED.
2. BOTTOM SIDE OF THE PCB IS CONTINUOUS GROUND PLANE.
■ DENOTES PCB COPPER LAYOUT WITH SMOBC (SOLDER MASK OVER BARE COPPER)
■ DENOTES COPPER LAND PATTERN FREE OF SOLDER MASK

Features

- wideband, 104 to 340 MHz
- good isolation, 20 dB typ.
- good VSWR, 1.24 typ.
- small size surface mount

Applications

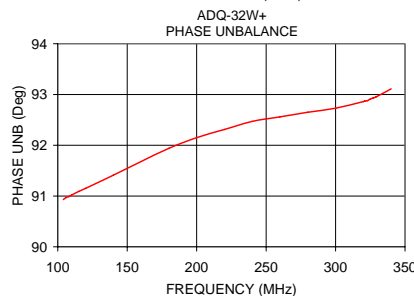
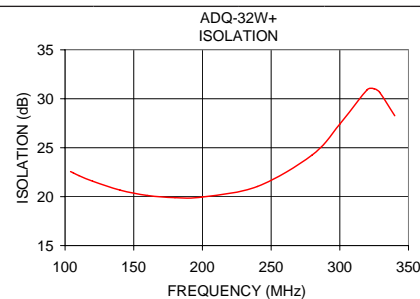
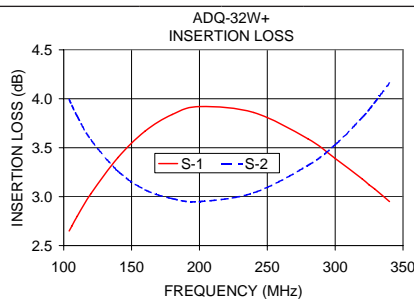
- point to point microwave link
- VHF/UHF receivers/transmitters

Electrical Specifications

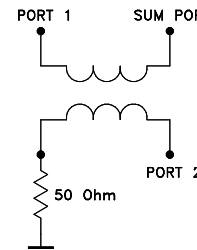
FREQ. RANGE (MHz)	ISOLATION (dB)		INSERTION LOSS (dB) Avg. of Coupled Outputs less 3 dB		PHASE UNBALANCE (Degrees)		AMPLITUDE UNBALANCE (dB)		VSWR (:1)	
	Typ.	Min.	Typ.	Max.	Typ.	Max.	Typ.	Max.	S-Port Typ.	Output Typ.
f _L -f _U	20	16	0.6	0.9	3	8	0.8	1.8	1.22	1.25
104-340										

Typical Performance Data

Frequency (MHz)	Insertion Loss (dB)		Amplitude Unbalance (dB)	Isolation (dB)	Phase Unbalance (deg.)	VSWR S	VSWR 1	VSWR 2
	S-1	S-2						
104.00	2.65	3.99	1.34	22.56	90.93	1.20	1.22	1.22
106.00	2.70	3.93	1.23	22.43	90.97	1.20	1.22	1.22
110.00	2.80	3.82	1.02	22.15	91.02	1.20	1.22	1.22
120.00	3.03	3.58	0.55	21.58	91.15	1.20	1.22	1.23
140.00	3.40	3.26	0.14	20.67	91.41	1.21	1.23	1.23
160.00	3.67	3.07	0.60	20.12	91.68	1.21	1.24	1.24
180.00	3.84	2.98	0.87	19.90	91.94	1.20	1.25	1.25
200.00	3.92	2.95	0.98	19.96	92.15	1.19	1.25	1.25
240.00	3.86	3.04	0.82	21.04	92.47	1.17	1.24	1.24
280.00	3.59	3.32	0.27	24.27	92.65	1.12	1.20	1.22
300.00	3.39	3.53	0.14	27.41	92.73	1.08	1.16	1.19
320.00	3.18	3.81	0.63	30.93	92.86	1.05	1.12	1.17
325.00	3.12	3.89	0.77	31.02	92.91	1.05	1.11	1.17
329.00	3.08	3.96	0.88	30.66	92.95	1.05	1.10	1.17
340.00	2.95	4.16	1.21	28.27	93.11	1.07	1.08	1.17



electrical schematic



For detailed performance specs & shopping online see web site

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