

Surface Mount Power Splitter/Combiner

2 Way-90° 50Ω 104 to 340 MHz

ADQ-32W+



Generic photo used for illustration purposes only

CASE STYLE: CJ725

+RoHS Compliant

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

Available Tape and Reel at no extra cost

Reel Size	Devices/Reel
7"	10, 20, 50, 100, 200
13"	500

Maximum Ratings

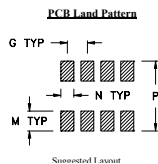
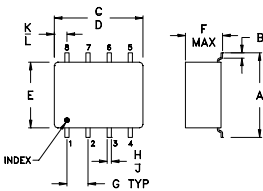
Operating Temperature	-40°C to 85°C
Storage Temperature	-55°C to 100°C
Power Input (as a splitter)	0.5W max.

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

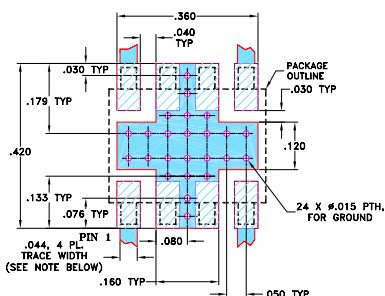
Outline Drawing



Outline Dimensions (inch/mm)

A	B	C	D	E	F	G	H	J	K	L	M	N	P	wt
.397	.032	.385	.435	.310	.215	.100	.015	.025	.035	.075	.120	.060	.420	grams
10.08	0.81	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

Notes

- A. Performance and quality attributes and conditions not expressly stated in this specification document are intended to be excluded and do not form a part of this specification document.
B. Electrical specifications and performance data contained in this specification document are based on Mini-Circuit's applicable established test performance criteria and measurement instructions.
C. The parts covered by this specification document are subject to Mini-Circuit's standard limited warranty and terms and conditions (collectively, "Standard Terms"); Purchasers of this part are entitled to the rights and benefits contained therein. For a full statement of the Standard Terms and the exclusive rights and remedies thereunder, please visit Mini-Circuit's website at www.minicircuits.com/MCLStore/terms.jsp

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

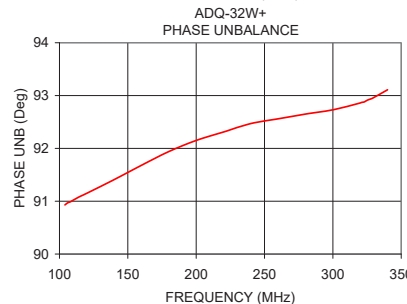
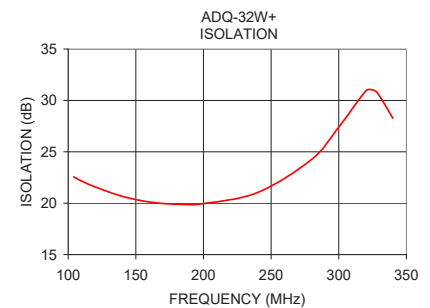
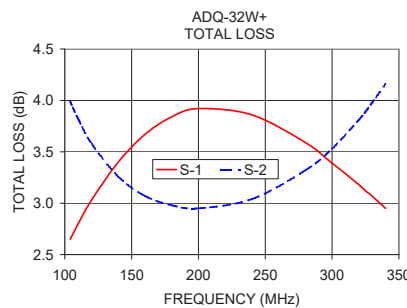
Electrical Specifications

FREQ. RANGE (MHz)	ISOLATION (dB)		INSERTION LOSS (dB) Avg. of Coupled Outputs ABOVE 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

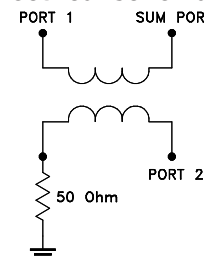
Typical Performance Data

Frequency (MHz)	Total Loss ¹ (dB)		Amplitude Unbalance (dB)	Isolation (dB)	Phase Unbalance (deg.)	VSWR S	VSWR 1	VSWR 2
	S-1	S-2						
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

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



electrical schematic



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