

Engineering Development Model

Power Splitter/Combiner*

2ZFSC-ED13037A/1

3 Way-0°

*2 Splitters

Important Note

This model has been designed, built and tested in our engineering department. Performance data represents model capability. At present it is a non-catalog model. On request, we can supply a final specification sheet, part number and price/delivery information.



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CASE STYLE: 99-01-1274

ELECTRICAL SPECIFICATIONS 50Ω @ +25°C				
Parameter		Min.	Typ.	Max. Units
Frequency		1		200 MHz
Isolation	1-10 MHz		45	dB
	10-100 MHz		35	dB
	100-200 MHz		21	dB
Insertion Loss Above 4.8 dB	1-10 MHz		0.15	dB
	10-100 MHz		0.20	dB
	100-200 MHz		0.50	dB
Phase Unbalance	1-10 MHz		0.35	deg.
	10-100 MHz		0.15	deg.
	100-200 MHz		0.55	deg.
Amplitude Unbalance	1-10 MHz		0.05	dB
	10-100 MHz		0.03	dB
	100-200 MHz		0.02	dB
VSWR	SUM Port		1.16	(:1)
	OUT Ports		1.07	(:1)

MAXIMUM RATINGS	
Operating Temperature	-40°C to 85°C
Storage Temperature	-55°C to 100°C

COAXIAL CONNECTIONS	
SUM PORT (Splitter 1)	S
PORT 1	1
PORT 2	2
PORT 3	3

electrical schematic



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RF/MICROWAVE COMPONENTS

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Typical Performance Data

FREQ. (MHz)	TOTAL LOSS ¹			AMP UNBAL. (dB)	ISOLATION			PHASE UNBAL. (Deg)	FREQ. (MHz)	VSWR			
	S1	S2	S3		1-2	1-3	2-3			S	1	2	3
1.00	5.06	5.01	4.98	0.08	42.59	41.16	40.88	0.69	1.00	1.09	1.14	1.15	1.15
2.00	5.00	4.96	4.96	0.05	47.56	46.64	46.22	0.46	2.00	1.06	1.10	1.10	1.10
3.00	4.98	4.94	4.94	0.04	50.54	49.84	49.80	0.35	3.00	1.05	1.08	1.08	1.08
4.00	4.96	4.92	4.93	0.04	50.13	49.67	50.87	0.30	4.00	1.04	1.07	1.07	1.07
5.00	4.96	4.91	4.92	0.04	48.78	48.46	49.60	0.26	5.00	1.04	1.06	1.06	1.06
6.00	4.95	4.91	4.92	0.04	47.31	46.98	47.91	0.24	6.00	1.04	1.06	1.06	1.06
7.00	4.95	4.91	4.92	0.04	45.91	45.55	46.47	0.22	7.00	1.04	1.06	1.06	1.06
8.00	4.95	4.91	4.92	0.04	44.66	44.32	45.16	0.20	8.00	1.04	1.05	1.06	1.06
9.00	4.95	4.91	4.92	0.04	43.58	43.29	44.06	0.18	9.00	1.04	1.05	1.05	1.05
10.00	4.95	4.91	4.92	0.04	42.75	42.45	43.18	0.18	10.00	1.05	1.05	1.05	1.05
11.00	4.95	4.91	4.93	0.04	41.91	41.58	42.36	0.16	11.00	1.05	1.05	1.05	1.05
12.00	4.95	4.91	4.93	0.04	41.17	40.87	41.62	0.15	12.00	1.05	1.05	1.05	1.05
13.00	4.95	4.91	4.93	0.04	40.55	40.22	40.91	0.14	13.00	1.05	1.05	1.05	1.05
14.00	4.95	4.92	4.93	0.04	39.99	39.69	40.28	0.13	14.00	1.06	1.05	1.05	1.05
15.00	4.96	4.92	4.93	0.04	39.41	39.09	39.65	0.12	15.00	1.06	1.05	1.05	1.05
16.00	4.96	4.92	4.93	0.04	38.94	38.64	39.13	0.11	16.00	1.06	1.05	1.05	1.05
20.00	4.96	4.93	4.94	0.04	37.07	36.78	37.28	0.09	20.00	1.07	1.05	1.05	1.05
40.00	5.01	4.97	4.99	0.03	31.57	31.29	31.69	0.05	40.00	1.13	1.05	1.05	1.05
60.00	5.05	5.02	5.03	0.03	28.33	28.05	28.39	0.15	60.00	1.19	1.06	1.05	1.05
80.00	5.09	5.07	5.09	0.02	26.05	25.76	26.13	0.23	80.00	1.25	1.06	1.06	1.05
100.00	5.14	5.13	5.14	0.01	24.27	23.98	24.36	0.31	100.00	1.32	1.07	1.06	1.06
125.00	5.22	5.21	5.22	0.01	22.50	22.21	22.59	0.42	125.00	1.40	1.08	1.07	1.07
150.00	5.28	5.30	5.30	0.02	21.14	20.84	21.22	0.52	150.00	1.48	1.09	1.07	1.07
175.00	5.36	5.39	5.39	0.03	20.02	19.71	20.11	0.64	175.00	1.57	1.10	1.09	1.08
200.00	5.44	5.49	5.49	0.05	19.08	18.77	19.16	0.76	200.00	1.67	1.12	1.10	1.10

¹Total Loss = Insertion Loss + 4.8dB Splitter Loss



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Typical Performance Curves

