Engineering Development Model

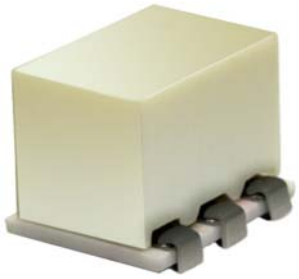
Power Splitter/Combiner CRPS-ED3034A/2

2 Way-0°

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.

Please click "Back", and then click "Contact Us" for Applications support.



CASE STYLE : 99-01-806

ELECTRICAL SPECIFICATIONS 75Ω @ +25°C					
Parameter		**Min.**	**Typ.**	**Max.**	**Units**
Frequency		0.1		262	MHz
Isolation	**0.1 - 1 MHz**		31		dB
	1 - 131 MHz		34		dB
	131 - 262 MHz		25		dB
Insertion Loss Above 3.0 dB	**0.1 - 1 MHz**		0.24		dB
	1 - 131 MHz		0.17		dB
	131 - 262 MHz		0.40		dB
Phase Unbalance	**0.1 - 1 MHz**		0.02		deg.
	1 - 131 MHz		0.08		deg.
	131 - 262 MHz		0.25		deg.
Amplitude Unbalance	**0.1 - 1 MHz**		0.01		dB
	1 - 131 MHz		0.01		dB
	131 - 262 MHz		0.02		dB
VSWR	**SUM Port**		1.16		(:1)
	OUT Ports		1.14		(:1)

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

PIN CONNECTIONS	
SUM PORT	6
PORT 1	4
PORT 2	3
GND EXT	1
NOT USED	2,5

Functional Diagram

2 Way-0° Power Splitter/Combiner CRPS-ED3034A/2

Typical Performance Data

FREQUENCY (MHz)	TOTAL LOSS[1] (dB)		AMPLITUDE UNBALANCE (dB)	ISOLATION (dB)	PHASE UNBALANCE (deg.)
	S-1	S-2		1-2	
0.04	3.83	3.84	0.00	24.23	0.01
0.05	3.61	3.61	0.00	25.74	0.05
0.06	3.46	3.46	0.00	27.01	0.02
0.07	3.37	3.37	0.00	28.14	0.00
0.08	3.32	3.31	0.01	29.21	0.04
0.09	3.27	3.27	0.00	30.16	0.02
0.10	3.24	3.24	0.00	31.00	0.02
5.00	3.13	3.12	0.01	35.63	0.00
10.00	3.13	3.12	0.01	36.09	0.08
14.00	3.13	3.13	0.00	36.23	0.08
18.00	3.13	3.12	0.01	36.30	0.02
22.00	3.13	3.13	0.00	36.22	0.03
26.00	3.14	3.13	0.00	36.17	0.06
30.00	3.15	3.14	0.01	35.88	0.02
34.00	3.14	3.14	0.00	35.70	0.07
38.00	3.15	3.15	0.00	35.55	0.05
42.00	3.16	3.15	0.00	35.24	0.06
46.00	3.16	3.16	0.00	35.04	0.02
50.00	3.17	3.15	0.01	34.81	0.07
52.00	3.17	3.17	0.00	34.72	0.05
54.00	3.16	3.16	0.00	34.50	0.07
56.00	3.17	3.17	0.00	34.43	0.13
58.00	3.18	3.17	0.01	34.31	0.11
60.00	3.18	3.17	0.01	34.15	0.09
75.00	3.20	3.20	0.00	33.00	0.12
90.00	3.21	3.21	0.00	31.99	0.10
105.00	3.22	3.22	0.00	30.96	0.14
120.00	3.24	3.25	0.01	30.01	0.17
135.00	3.26	3.27	0.01	29.08	0.18
150.00	3.29	3.30	0.01	28.10	0.21
178.00	3.33	3.34	0.01	26.40	0.24
206.00	3.38	3.40	0.02	24.71	0.22
234.00	3.44	3.47	0.03	23.10	0.28
262.00	3.51	3.55	0.04	21.54	0.22
290.00	3.59	3.64	0.05	20.02	0.22
318.00	3.68	3.74	0.06	18.53	0.19
346.00	3.81	3.88	0.07	17.11	0.14
374.00	3.95	4.02	0.07	15.73	0.13
402.00	4.10	4.20	0.10	14.41	0.03
430.00	4.32	4.42	0.10	13.18	0.05

FREQUENCY (MHz)	VSWR (:1)		
	S	1	2
0.04	2.11	1.97	1.97
0.05	1.87	1.77	1.77
0.06	1.71	1.64	1.64
0.07	1.60	1.54	1.54
0.08	1.52	1.48	1.48
0.09	1.46	1.42	1.42
0.10	1.41	1.38	1.38
5.00	1.06	1.05	1.05
10.00	1.07	1.05	1.05
14.00	1.07	1.05	1.05
18.00	1.07	1.05	1.05
22.00	1.07	1.05	1.06
26.00	1.07	1.06	1.06
30.00	1.08	1.06	1.06
34.00	1.08	1.07	1.07
38.00	1.08	1.07	1.07
42.00	1.09	1.07	1.08
46.00	1.09	1.08	1.08
50.00	1.10	1.08	1.08
52.00	1.10	1.09	1.09
54.00	1.10	1.09	1.09
56.00	1.11	1.09	1.09
58.00	1.11	1.09	1.09
60.00	1.11	1.10	1.10
75.00	1.13	1.12	1.12
90.00	1.15	1.13	1.14
105.00	1.17	1.15	1.15
120.00	1.18	1.17	1.17
135.00	1.20	1.20	1.20
150.00	1.23	1.22	1.22
178.00	1.28	1.26	1.27
206.00	1.32	1.30	1.31
234.00	1.37	1.35	1.36
262.00	1.44	1.41	1.41
290.00	1.54	1.46	1.46
318.00	1.62	1.51	1.51
346.00	1.68	1.56	1.56
374.00	1.78	1.61	1.61
402.00	1.93	1.65	1.65
430.00	2.07	1.68	1.69

[1]Total Loss = Insertion Loss + 3dB Splitter Loss

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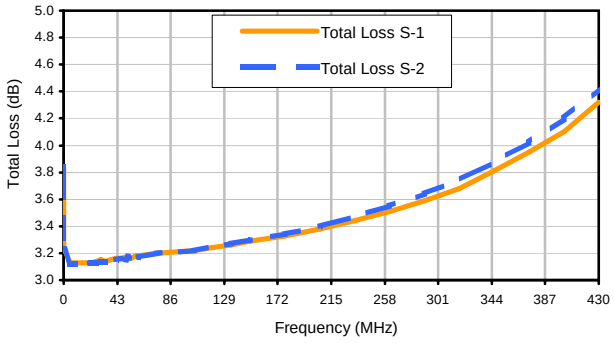
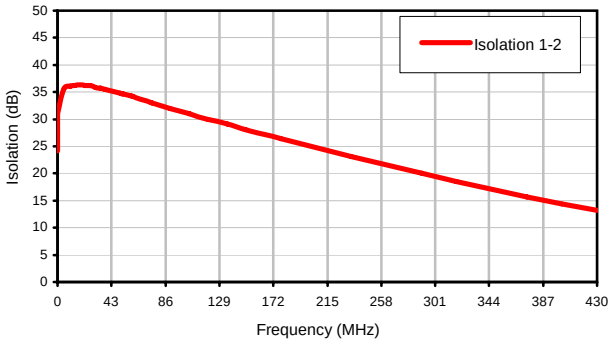
Typical Performance Curves

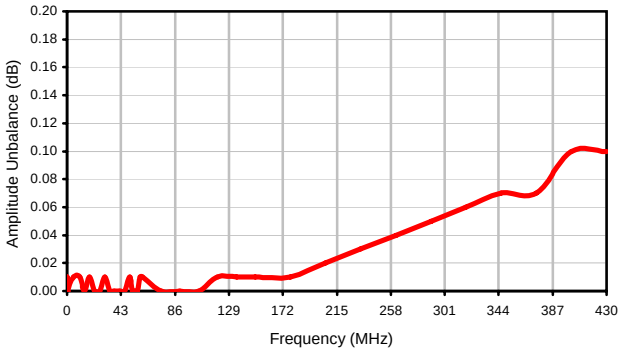
Total Loss



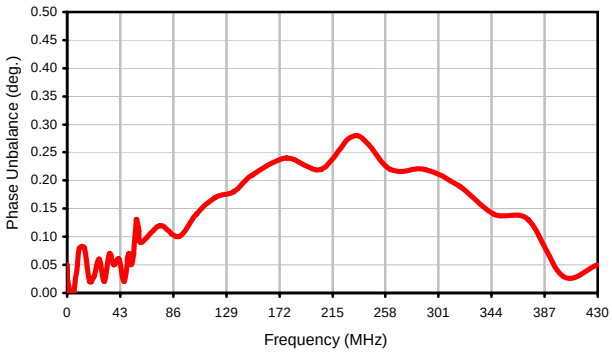
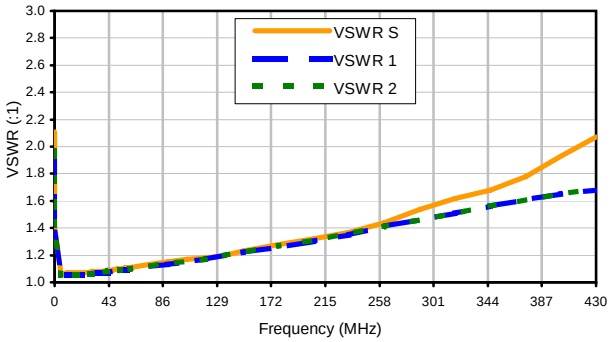
Isolation



Amplitude Unbalance



Phase Unbalance



VSWR