

Power Splitter/Combiner

10 Way-0° 50Ω 2300 to 2600 MHz

ZC10PD-26-S

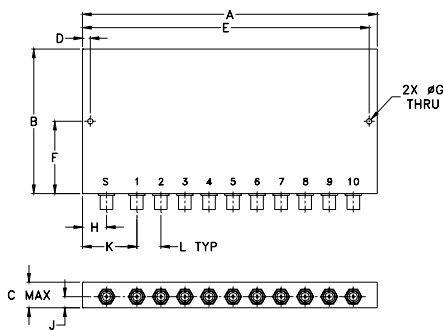
Maximum Ratings

Operating Temperature	-55°C to 100°C
Storage Temperature	-55°C to 100°C
Power Input (as a splitter)	10W max.
Internal Dissipation	0.80W max.
Permanent damage may occur if any of these limits are exceeded.	

Coaxial Connections

SUM PORT	S
PORT 1,2,3,4,5,6,7,8,9,10	1,2,3,4,5,6,7,8,9,10

Outline Drawing



Outline Dimensions (inch/mm)

A	B	C	D	E	F
6.13	3.00	.53	.162	5.962	1.500
155.70	76.20	13.46	4.11	151.43	38.10
G	H	J	K	L	wt
.116	.50	.25	1.13	.50	grams
2.95	12.70	6.35	28.70	12.70	207

Features

- low insertion loss, 0.7 dB typ.
- high isolation, 25 dB typ.
- good amplitude unbalance, 0.45 dB typ.
- good VSWR, 1.25 typ.
- up to 10W power input as splitter

Applications

- cellular communications
- CATV
- ISM
- wireless communication systems



Generic photo used for illustration purposes only

CASE STYLE: AB204

Connectors	Model
SMA	ZC10PD-26-S

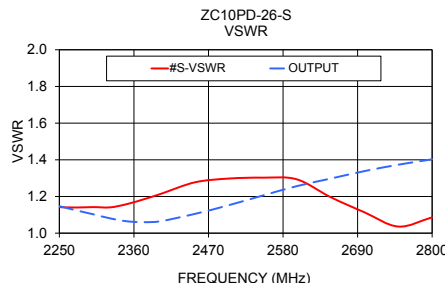
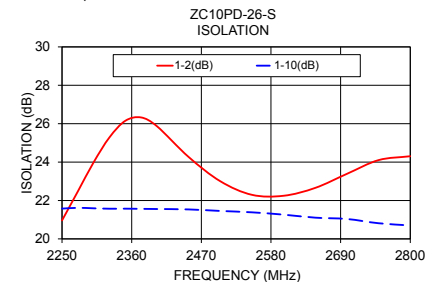
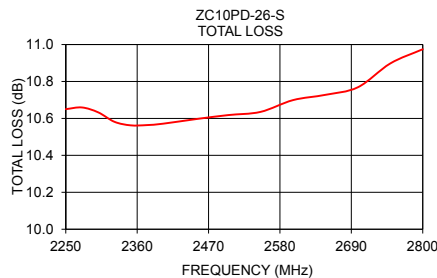
Electrical Specifications

FREQ. RANGE (MHz)	ISOLATION (dB)		INSERTION LOSS (dB) ABOVE 10 dB		PHASE UNBALANCE (Degrees)	AMPLITUDE UNBALANCE (dB)	VSWR (:1)			
f_L - f_U	Typ.	Min.	Typ.	Max.	Max.	Max.	S		OUT	
							Typ.	Max.	Typ.	Max.
2300-2600	25	20	0.7	1.9	15	1.1	1.3	1.7	1.2	1.6

Typical Performance Data

Freq. (MHz)	Total Loss ¹ (dB)	Amplitude Unbalance (dB)	Isolation (dB)		Phase Unbalance (deg.)	VSWR S	VSWR 1
			1-2	1-10			
2250	10.65	0.37	20.96	21.58	5.83	1.14	1.15
2275	10.66	0.50	22.47	21.62	6.08	1.14	1.12
2300	10.63	0.49	23.99	21.59	7.06	1.14	1.10
2325	10.58	0.32	25.29	21.57	7.42	1.14	1.08
2350	10.56	0.29	26.15	21.57	7.18	1.16	1.06
2375	10.56	0.27	26.32	21.56	6.93	1.19	1.06
2400	10.57	0.27	25.87	21.56	6.73	1.21	1.07
2450	10.60	0.26	24.26	21.53	6.48	1.28	1.11
2500	10.62	0.27	23.00	21.46	6.80	1.30	1.15
2550	10.64	0.31	22.29	21.38	7.52	1.30	1.21
2600	10.70	0.30	22.25	21.26	8.95	1.29	1.26
2650	10.73	0.35	22.66	21.11	8.39	1.20	1.30
2700	10.77	0.41	23.39	21.04	9.21	1.11	1.34
2750	10.90	0.47	24.10	20.81	10.10	1.04	1.37
2800	10.97	0.50	24.31	20.70	11.05	1.09	1.40

1. Total Loss = Insertion Loss + 10dB splitter loss.



electrical schematic



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.
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10 Way-0° Power Splitter/Combiner

ZC10PD-26

Typical Performance Data

FREQ. (MHz)	TOTAL LOSS ¹ (dB)	AMP. UNBAL. (dB)	ISOLATION (dB)		PHASE UNBAL. (deg.)	FREQ. (MHz)	VSWR (:1)	
			Adjacent	Opposite			S	OUTPUTS
2300.0	10.65	0.22	26.54	39.97	8.93	2300.0	1.26	1.35
2305.0	10.64	0.26	26.50	40.38	8.96	2305.0	1.24	1.27
2310.0	10.61	0.22	26.45	40.99	9.04	2310.0	1.23	1.27
2315.0	10.62	0.24	26.42	41.49	8.97	2315.0	1.21	1.27
2320.0	10.62	0.24	26.34	41.93	8.96	2320.0	1.20	1.27
2325.0	10.57	0.24	26.29	42.49	8.98	2325.0	1.19	1.27
2330.0	10.58	0.21	26.22	42.88	9.09	2330.0	1.18	1.27
2335.0	10.59	0.22	26.14	43.38	9.19	2335.0	1.17	1.27
2340.0	10.60	0.22	26.06	43.85	8.89	2340.0	1.17	1.27
2345.0	10.59	0.20	25.96	43.97	9.13	2345.0	1.17	1.27
2350.0	10.60	0.18	25.84	44.31	9.13	2350.0	1.17	1.27
2355.0	10.64	0.16	25.67	44.50	9.10	2355.0	1.17	1.27
2360.0	10.61	0.19	25.54	44.60	9.14	2360.0	1.18	1.27
2365.0	10.59	0.17	25.44	44.48	9.32	2365.0	1.18	1.27
2370.0	10.61	0.16	25.32	44.31	9.31	2370.0	1.19	1.27
2375.0	10.60	0.16	25.24	43.99	9.43	2375.0	1.20	1.26
2380.0	10.57	0.16	25.18	43.79	9.32	2380.0	1.21	1.26
2385.0	10.55	0.17	25.11	43.27	9.32	2385.0	1.22	1.26
2390.0	10.55	0.17	25.07	43.02	9.29	2390.0	1.23	1.26
2395.0	10.56	0.17	25.03	42.44	9.32	2395.0	1.24	1.26
2400.0	10.57	0.17	24.92	41.81	9.47	2400.0	1.25	1.26
2410.0	10.63	0.17	24.85	40.91	9.58	2410.0	1.27	1.26
2420.0	10.66	0.16	24.75	39.95	9.76	2420.0	1.29	1.25
2430.0	10.66	0.16	24.66	39.05	9.55	2430.0	1.30	1.25
2440.0	10.68	0.17	24.56	38.23	9.53	2440.0	1.31	1.25
2450.0	10.69	0.15	24.51	37.42	9.64	2450.0	1.32	1.25
2460.0	10.69	0.16	24.47	36.62	9.69	2460.0	1.32	1.24
2470.0	10.66	0.16	24.44	36.00	9.92	2470.0	1.32	1.24
2480.0	10.61	0.18	24.40	35.37	10.19	2480.0	1.32	1.24
2490.0	10.59	0.20	24.37	34.78	10.28	2490.0	1.31	1.24
2500.0	10.62	0.23	24.44	34.29	10.55	2500.0	1.30	1.24
2510.0	10.64	0.24	24.45	33.77	10.46	2510.0	1.28	1.24
2520.0	10.64	0.22	24.47	33.31	10.53	2520.0	1.26	1.24
2530.0	10.69	0.20	24.45	32.92	10.29	2530.0	1.24	1.24
2540.0	10.72	0.17	24.41	32.56	10.52	2540.0	1.21	1.24
2550.0	10.72	0.15	24.31	32.19	10.67	2550.0	1.19	1.24
2560.0	10.70	0.13	24.19	31.81	10.89	2560.0	1.16	1.24
2570.0	10.66	0.15	24.03	31.50	11.35	2570.0	1.14	1.24
2580.0	10.62	0.18	23.86	31.13	11.56	2580.0	1.13	1.24
2590.0	10.57	0.25	23.62	30.86	12.03	2590.0	1.12	1.25
2600.0	10.55	0.32	23.41	30.66	11.82	2600.0	1.13	1.25

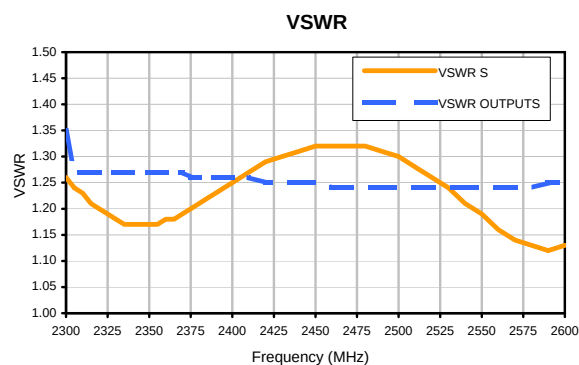
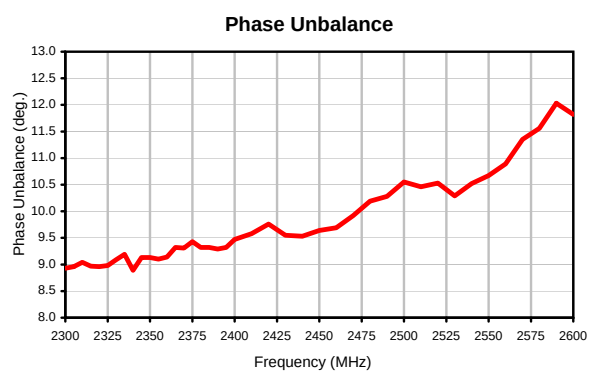
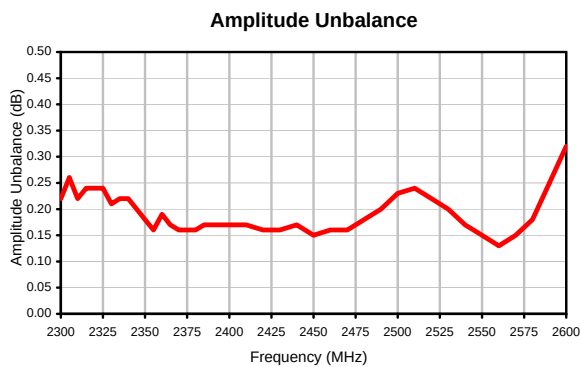
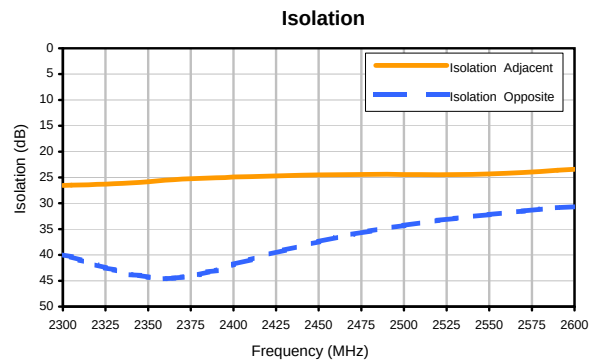
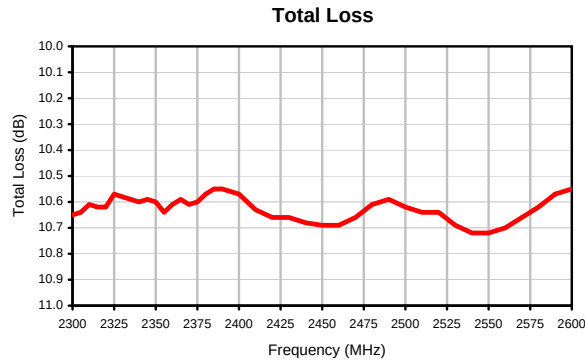
¹ Total Loss = Insertion Loss+ 10dB Splitter Loss

REV. X2
ZC10PD-26
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Page 1 of 1

10 Way-0° Power Splitter/Combiner

ZC10PD-26

Typical Performance Curves



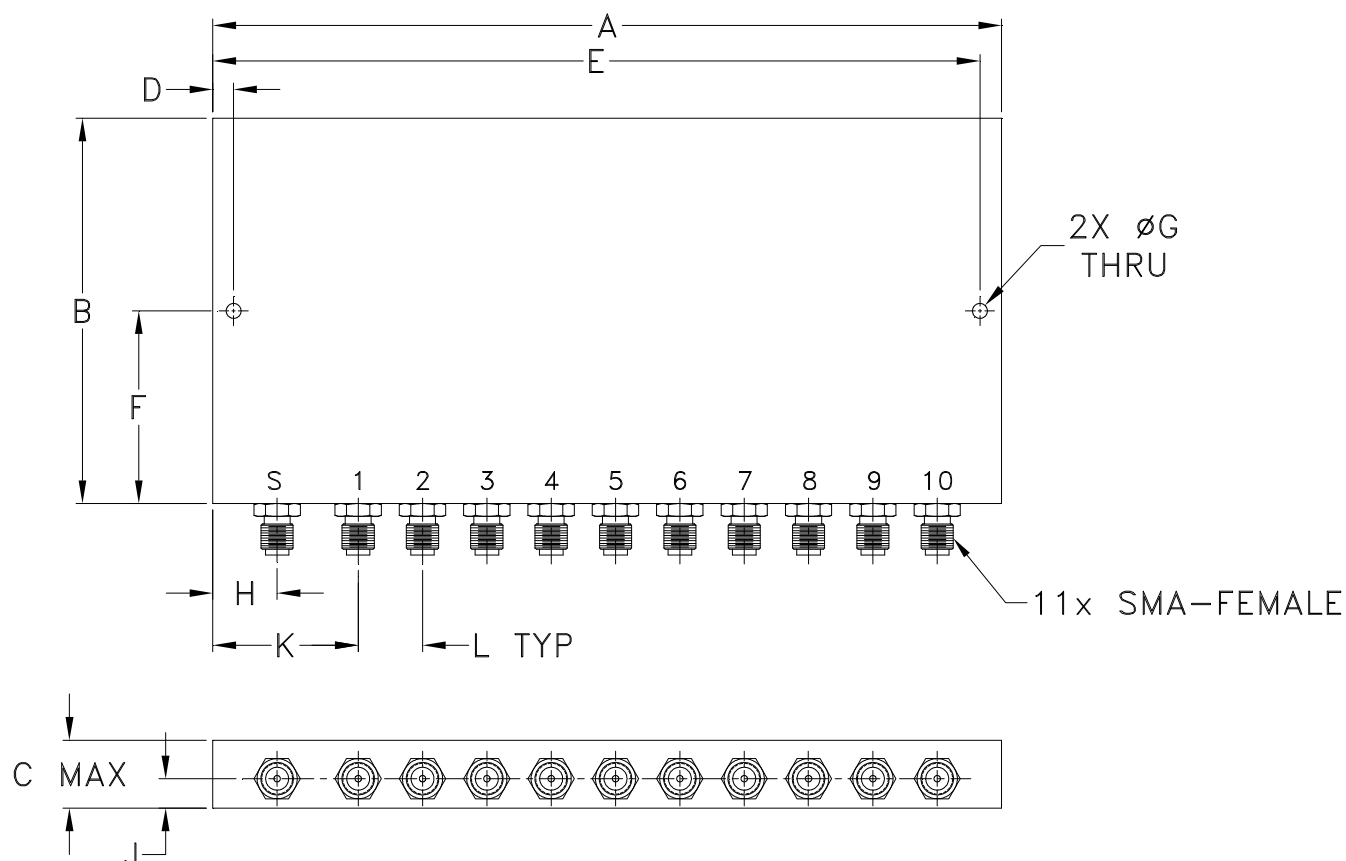
REV. X2
ZC10PD-26
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Page 1 of 1



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Outline Dimensions



CASE #	A	B	C	D	E	F	G	H	J	K	L	WT. GRAM
AB204	6.13 (155.70)	3.00 (76.20)	.53 (13.46)	.162 (4.11)	5.962 (151.43)	1.500 (38.10)	.116 (2.95)	.50 (12.70)	.25 (6.35)	1.13 (28.70)	.50 (12.70)	207

Dimensions are in inches (mm). Tolerances: 2Pl. $\pm .03$; 3Pl. $\pm .015$

Notes:

- Case material: Aluminum alloy.
- Case finish:

For RoHS Case Styles:

Clear chemical conversion coating, non-chrome or trivalent chrome based.



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All Mini-Circuits products are manufactured under exacting quality assurance and control standards, and are capable of meeting published specifications after being subjected to any or all of the following physical and environmental test.

Specification	Test/Inspection Condition	Reference/Spec
Operating Temperature	-55° to 100°C Ambient Environment	Individual Model Data Sheet
Storage Temperature	-55° to 100° C Ambient Environment	Individual Model Data Sheet
Barometric Pressure	100,000 Feet	MIL-STD-202, Method 105, Condition D
Humidity	90% RH, 65°C Units may require bake-out after humidity to restore full performance.	MIL-STD-202, Method 103
Thermal Shock	-65° to 125°C, 5 cycles	MIL-STD-202, Method 107, Condition B
Vibration (High Frequency)	20g peak, 10-2000 Hz, 12 times in each of three perpendicular directions (total 36)	MIL-STD-202, Method 204, Condition D
Mechanical Shock	100g, 6ms sawtooth, 3 shocks each direction 3 axes (total 18)	MIL-STD-202, Method 213, Condition I