

Power Splitter/Combiner

ZC16PD-252+



Operating Temperature	-40°C to 85°C
Storage Temperature	-55°C to 100°C
Power Input (as a splitter)	1W max.
Internal Dissipation	0.75W max.

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

SUM PORT	S
PORT 1.2.3.....16	1.2.3.....16

The drawing shows a 16-pin connector with the following dimensions and features:

- Side View (Top):** Shows the overall profile with dimensions A (total length), B (height), C (pin height), D (top flange width), E (pin pitch), H (distance from top flange to pin center), L (bottom flange width), M (bottom flange height), and S (pin diameter). A note indicates "4X ØG THRU" for the mounting holes.
- Pin Array:** 16 pins numbered 1 to 16, labeled "K TYP" (typical).
- Top View (Bottom):** Shows the pin layout with dimensions J (pin pitch) and K (pin diameter).

A	B	C	D	E	F	G
8.50	3.95	.75	.250	8.250	—	.187
215.90	100.33	19.05	6.35	209.55	—	4.75
H	J	K	L	M		wt
4.250	.38	.500	.475	3.475		grams
107.95	9.65	12.70	12.07	88.27		710

- wide frequency band 10 to 2500 MHz
- good amplitude unbalance, 0.3 dB typ.
- good phase unbalance, 5 deg. typ.

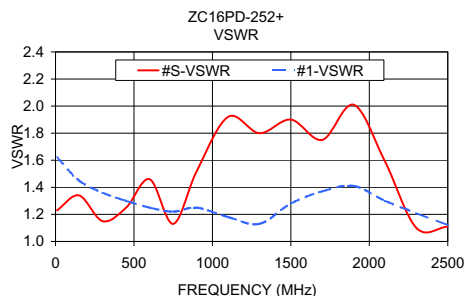
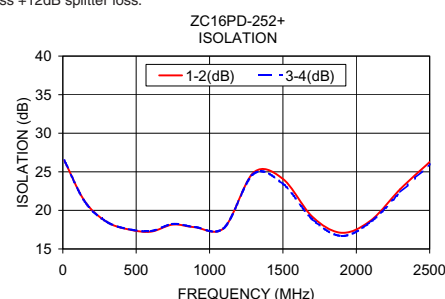
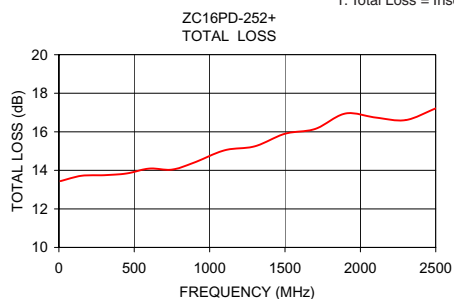
- UHF
- cellular, GPS, PCS
- communication systems

FREQ. RANGE (MHz)	ISOLATION (dB)			INSERTION LOSS (dB) ABOVE 12 dB						PHASE UNBALANCE (Degrees)			AMPLITUDE UNBALANCE (dB)					
	L		M	U		L		M	U		L		M	U				
	Typ.	Min.	Typ. Min.	Typ.	Min.	Typ.	Max.	Typ.	Max.	Typ.	Max.	Max.	Max.	Max.	Max.			
f _c -f _u	25	20	17	14	16	14	1.5	2.8	3.2	4.5	5.5	6.5	2	10	18	0.7	0.7	1.0

L = low range $[f_i \text{ to } 10 f_i]$ M = mid range $[10 f_i \text{ to } f_{i+1}/2]$ U= upper range $[f_{i+1}/2 \text{ to } f_{i+1}]$

Freq. (MHz)	Total Loss¹ (dB)	Amplitude Unbalance (dB)	Isolation (dB)		Phase Unbalance (deg.)	VSWR S	VSWR 1
			1-2	3-4			
10.00	13.44	0.04	26.46	26.50	0.15	1.23	1.62
150.00	13.72	0.04	21.16	21.11	0.58	1.34	1.45
300.00	13.75	0.06	18.51	18.51	1.03	1.15	1.36
450.00	13.84	0.09	17.52	17.57	1.36	1.25	1.30
600.00	14.09	0.10	17.24	17.31	1.83	1.46	1.25
750.00	14.04	0.10	18.16	18.25	2.29	1.13	1.22
900.00	14.41	0.12	17.82	17.85	2.89	1.52	1.25
1100.00	15.04	0.12	17.74	17.75	3.68	1.92	1.18
1300.00	15.25	0.20	24.90	24.74	4.85	1.80	1.13
1500.00	15.90	0.35	24.08	23.44	5.73	1.90	1.28
1700.00	16.15	0.46	19.18	18.86	5.75	1.75	1.37
1900.00	16.95	0.47	17.09	16.69	4.97	2.01	1.41
2100.00	16.74	0.49	18.71	18.53	6.11	1.59	1.30
2300.00	16.61	0.37	22.77	22.36	6.46	1.10	1.21
2500.00	17.22	0.51	26.28	26.00	7.35	1.11	1.12

1. Total Loss = Insertion Loss + 12dB splitter loss.



A diagram showing a central rectangular block representing a system. On the left side, there is a single input port labeled "PORT S" connected to the block. On the right side, there are multiple output ports labeled "PORT 1", "PORT 2", a vertical ellipsis, and "PORT N", each connected to the block.



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REV. A
M127604
ED-12956/1
ZC16PD-252-S+
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