

2 Way-0° 50Ω 950 to 2150 MHz

Maximum Ratings

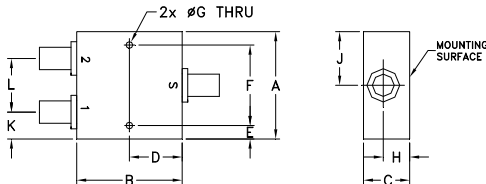
Operating Temperature	-40°C to 85°C
Storage Temperature	-55°C to 100°C
Power Input (as a splitter)	10W max.
Internal Dissipation	0.125W max.
DC Voltage	25V max.
DC Current	500mA max.

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

Coaxial Connections

SUM PORT	S (RF+DC) (N Male)
PORT 1	1 (RF+DC) (N Female)
PORT 2	2 (RF) (N Female)

Outline Drawing



Outline Dimensions (inch mm)

A	B	C	D	E	F
2.00	2.00	.88	1.00	.25	1.500
50.80	50.80	22.35	25.40	6.35	38.10

G	H	J	K	L	wt
.125	.50	1.00	0.50	1.00	grams
3.18	12.70	25.40	12.70	25.40	190.0

Features

- low insertion loss, 0.25 dB typ.
- good isolation, 25 dB typ.
- dc pass, 500mA current
- excellent amplitude unbalance, 0.1 dB typ.
- good phase unbalance, 2 deg. typ.
- excellent VSWR, 1.1:1 typ.
- rugged shielded case

Applications

- GPS
- satellite distribution
- PCS/DCS
- communications systems

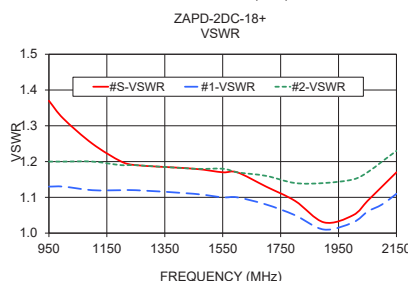
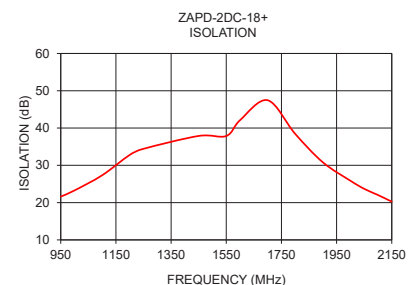
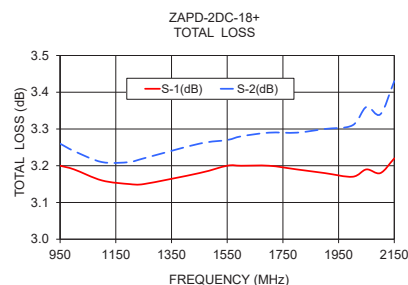
Electrical Specifications

FREQ. RANGE (MHz)	ISOLATION (dB)		INSERTION LOSS (dB) ABOVE 3.0 dB		PHASE UNBALANCE (Degrees)	AMPLITUDE UNBALANCE (dB)	VSWR (:1)			
	Typ.	Min.	Typ.	Max.			S	OUT	Typ.	Max.
f _L -f _U					Max.	Max.	Typ.	Max.	Typ.	Max.
950-2150	22	18	0.3	0.7	5	0.3	1.3	—	1.15	—
1000-2000	25	19	0.25	0.6	4	0.25	1.15	—	1.1	—
1200-1600	25	20	0.25	0.6	4	0.2	1.1	—	1.1	—

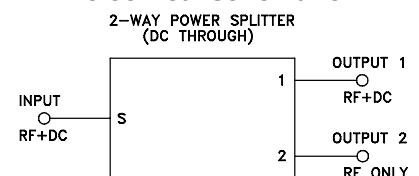
Typical Performance Data

Frequency (MHz)	Total Loss ¹ (dB)		Amplitude Unbalance (dB)	Isolation (dB)	Phase Unbalance (deg.)	VSWR S	VSWR 1	VSWR 2
	S-1	S-2						
950.00	3.20	3.26	0.05	21.61	1.27	1.37	1.13	1.20
1000.00	3.19	3.24	0.05	23.27	1.34	1.32	1.13	1.20
1100.00	3.16	3.21	0.05	27.33	1.43	1.25	1.12	1.20
1200.00	3.15	3.21	0.06	32.79	1.51	1.20	1.12	1.19
1250.00	3.15	3.22	0.08	34.43	1.66	1.19	1.12	1.19
1450.00	3.18	3.26	0.08	37.88	1.88	1.18	1.11	1.18
1550.00	3.20	3.27	0.08	37.87	2.01	1.17	1.10	1.18
1600.00	3.20	3.28	0.08	42.11	1.97	1.17	1.10	1.17
1700.00	3.20	3.29	0.09	47.46	2.18	1.13	1.08	1.16
1800.00	3.19	3.29	0.10	38.43	2.41	1.09	1.05	1.14
1900.00	3.18	3.30	0.11	30.82	2.65	1.03	1.01	1.14
2000.00	3.17	3.31	0.14	25.87	2.82	1.05	1.03	1.15
2050.00	3.19	3.36	0.16	23.70	2.79	1.09	1.06	1.17
2100.00	3.18	3.34	0.16	22.04	2.92	1.13	1.08	1.20
2150.00	3.22	3.43	0.21	20.26	2.98	1.17	1.11	1.23

1. Total Loss = Insertion Loss + 3dB 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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