

# Power Splitter/Combiner

2 Way-0° 50Ω

5 to 2500 Mhz

OPD5-2500-2-S

### Features

- wideband, 5 to 2500 MHz, useable from 0.5 to 3000 MHz
- low insertion loss, 1.0 dB typ.
- excellent amplitude unbalance, 0.2 dB typ.
- excellent phase unbalance, 2 deg. typ.
- rugged shielded case

### Applications

- VHF/UHF
- PCS
- GPS
- cellular

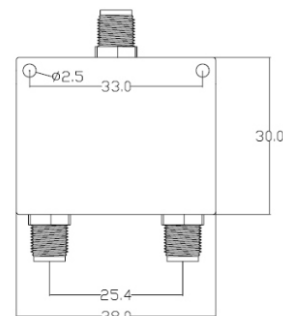
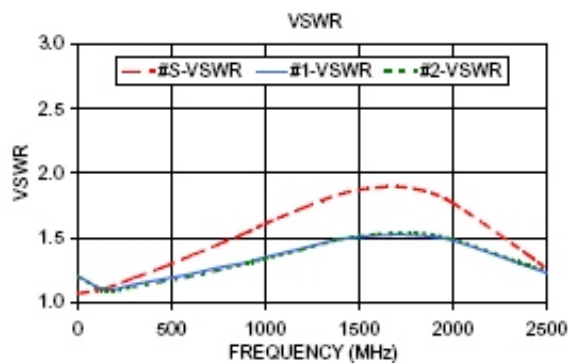
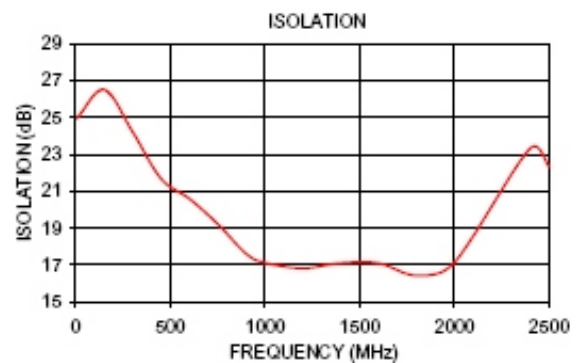
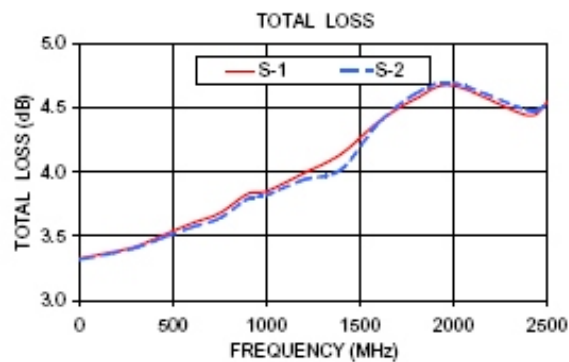
### Maximum Ratings

Operating Temperature	-40° C to 85° C
Storage Temperature	-55° C to 100° C
Power Input (as a splitter)	1W max.
Internal Dissipation	0.04W max.

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



Electrical Description			
1	Frequency	5-2500MHz	
2	Insertion Loss Max.	0.3-2.4dB	ABOVE 3 dB
3	Isolation Min.	14dB	25 dB Max.
4	Phase Unbalance (Degree) Max.	5.0°	
5	Amplitude Unbalance Max. .	0.6dB	
6	VSWR Max.	1.89:1	
7	Power handing Max. (watt)	1watt	
8	Connectors	SMA/BNC/N	
9	Impedance	50 Ohm	



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# Power Splitter/Combiner

2 Way-0° 50Ω 5 to 2750 Mhz

OPD5-2750-2-S

### Features

- wideband, 5 to 2750 MHz. useable 0.5 to 3000 MHz
- low insertion loss, 0.8 dB typ.
- high isolation, 25 dB typ.

### Applications

- VHF/UHF
- communications systems
- receivers & transmitters
- instrumentation
- CATV

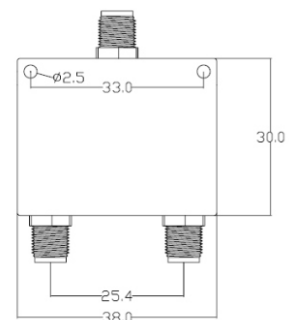
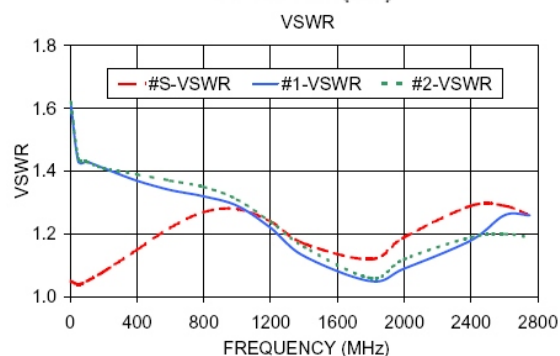
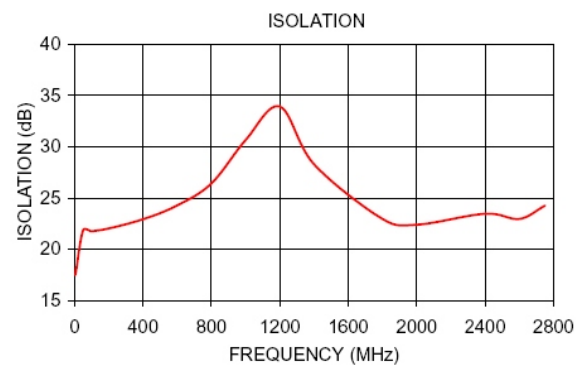
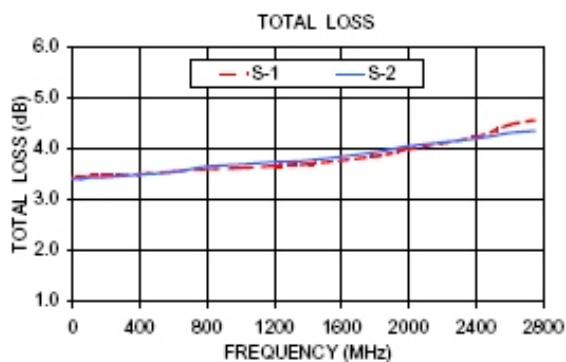
### Maximum Ratings

Operating Temperature	-40° C to 85° C
Storage Temperature	-55° C to 100° C
Power Input (as a splitter)	0.5W max.
Internal Dissipation	0.05W max.

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



Electrical Description			
1	Frequency	5-2750MHz	
2	Insertion Loss Max.	0.5-2.7dB	ABOVE 3 dB
3	Isolation Min.	18 dB	
4	Phase Unbalance (Dgree) Max.	6.0°	
5	Amplitude Unbalance Max..	2.2dB	
6	VSWR Max.	1.35:1	
7	Power handing Max. (watt)	0.5watt	
8	Connectors	SMA/BNC/N	
9	Impedance	50 Ohm	



Outline Drawing



# Power Splitter/Combiner

2 Way-0° 50Ω 100 to 900 Mhz OPD100-900-2-S

### Features

- wideband, 100 to 900 MHz
- low insertion loss, 0.3 dB typ.
- good isolation, 26 dB typ.
- up to 10W power input as splitter
- excellent amplitude unbalance, 0.1 dB typ.
- excellent phase unbalance, 1 deg. Typ.

### Applications

- VHF/UHF
- communication systems
- instrumentation
- communications systems

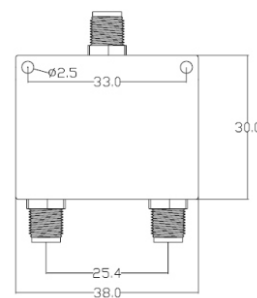
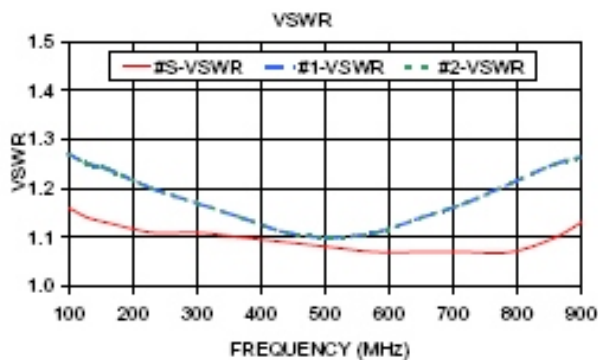
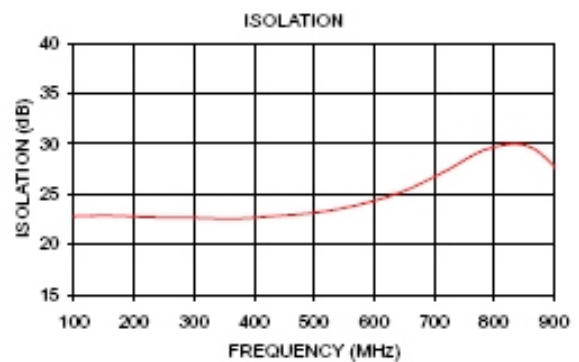
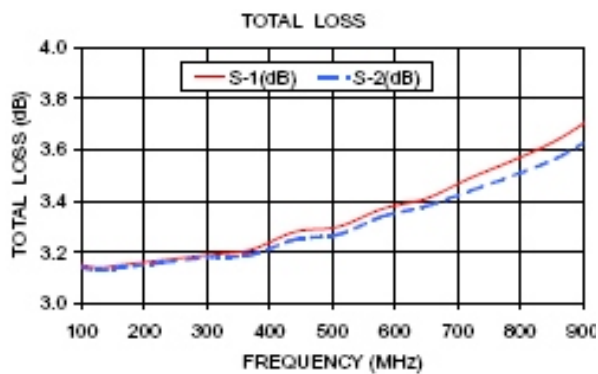
### Maximum Ratings

Operating Temperature	-40° C to 85° C
Storage Temperature	-55° C to 100° C
Power Input (as a splitter)	5W max.
Internal Dissipation	1W max.

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



Electrical Description			
1	Frequency	100-900MHz	
2	Insertion Loss Max.	0.3-1.0dB	ABOVE 3 dB
3	Isolation Min.	18dB	23 dB Max.
4	Phase Unbalance (Degree) Max.	3.0°	
5	Amplitude Unbalance Max..	0.3dB	
6	VSWR Max.	1.27:1	
7	Power handing Max. (watt)	2watt	
8	Connectors	SMA/BNC/N	
9	Impedance	50 Ohm	



Outline Drawing



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# Power Splitter/Combiner

2 Way-0° 50Ω 500 to 1000 Mhz

OPD500-1000-2-S

### Features

- wideband, 500 to 1000 MHz
- low insertion loss, 0.25 dB typ.
- good isolation, 25 dB typ.
- up to 10W power input as splitter
- excellent amplitude unbalance, 0.1 dB typ.
- excellent phase unbalance, 0.2 deg. typ.
- excellent VSWR, 1.1:1 typ.

### Applications

- UHF
- cellular
- communications systems
- instrumentation
- communications systems
- receivers & transmitters
- instrumentation

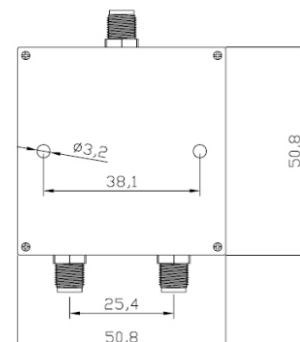
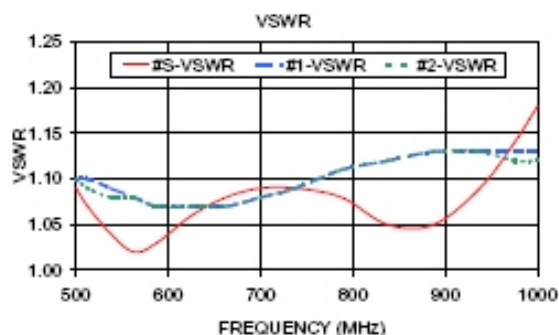
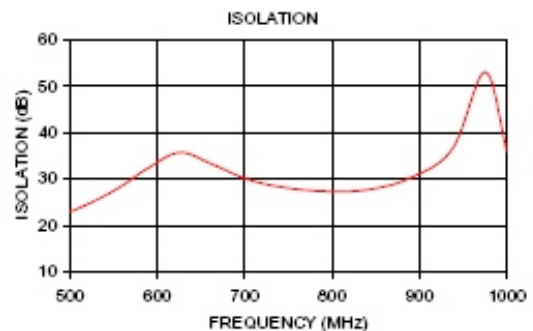
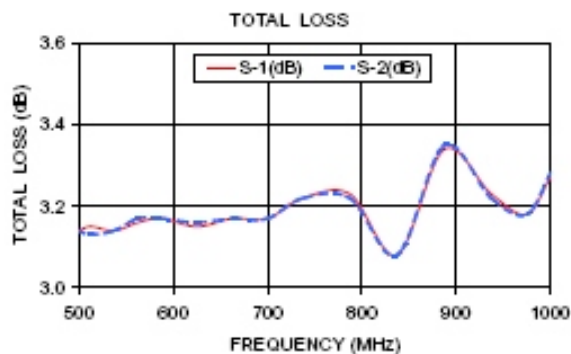
### Maximum Ratings

Operating Temperature	-40° C to 85° C
Storage Temperature	-55° C to 100° C
Power Input (as a splitter)	10W max.
Internal Dissipation	0.05W max.

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



Electrical Description			
1	Frequency	500-1000MHz	
2	Insertion Loss Max.	0.6dB	ABOVE 3 dB
3	Isolation Min.	19dB	
4	Phase Unbalance (Degree) Max.	2.0°	
5	Amplitude Unbalance Max. .	0.2dB	
6	VSWR Max.	1.18:1	
7	Power handing Max. (watt)	10watt	
8	Connectors	SMA/BNC/N	
9	Impedance	50 Ohm	



Outline Drawing



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# Power Splitter/Combiner

2 Way-0° 50Ω 500 to 2000 Mhz OPD500-2000-2-S

### Features

- wideband, 500 to 2000 MHz
- low insertion loss, 0.25 dB typ.
- good isolation, 25 dB typ.
- up to 10W power input as splitter
- excellent amplitude unbalance, 0.1 dB typ.
- excellent phase unbalance, 1 deg. typ.
- excellent VSWR, 1.20:1 typ.
- rugged shielded case

### Applications

- UHF
- GPS
- cellular
- communications systems
- instrumentation

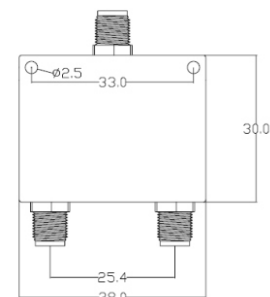
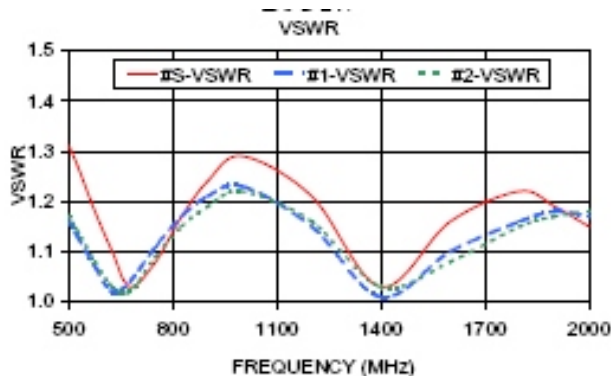
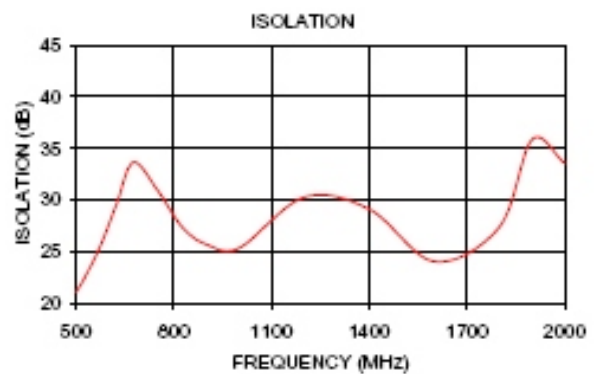
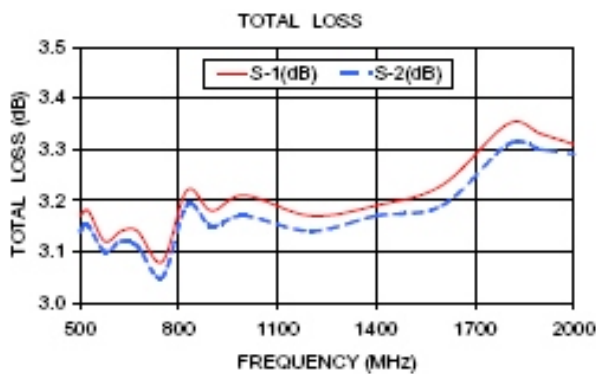
### Maximum Ratings

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.

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



Electrical Description			
1	Frequency	500-2000MHz	
2	Insertion Loss Max.	1.0dB	ABOVE 3 dB
3	Isolation Min.	18dB	
4	Phase Unbalance (Dgree) Max.	3.0°	
5	Amplitude Unbalance Max. .	0.2dB	
6	VSWR Max.	1.31:1	
7	Power handing Max. (watt)	10watt	
8	Connectors	SMA/BNC/N	
9	Impedance	50 Ohm	



Outline Drawing



## Power Splitter/Combiner

2 Way-0° 50Ω 500 to 2500 Mhz OPD500-2500-2-S

### Features

- wide bandwidth, 500 to 2500 MHz
- excellent amplitude unbalance, 0.02 dB typ.
- very good phase unbalance, 1 deg. typ.
- small size
- low cost

### Applications

- PCN
- GPS
- radar
- Cellular
- DCS
- DCS
- GSM
- communications
- WCDMA

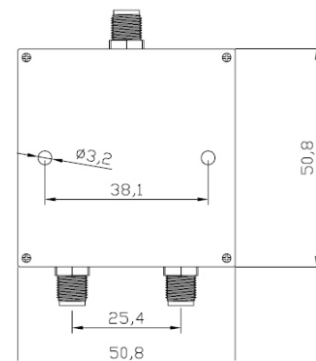
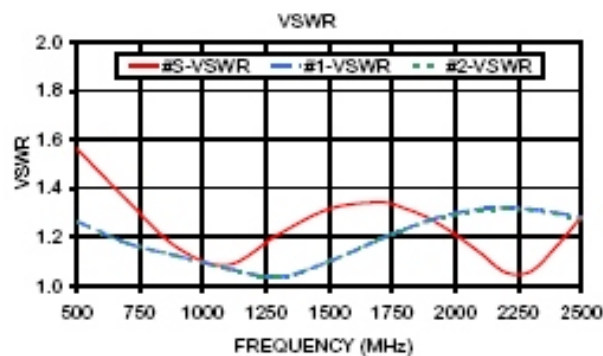
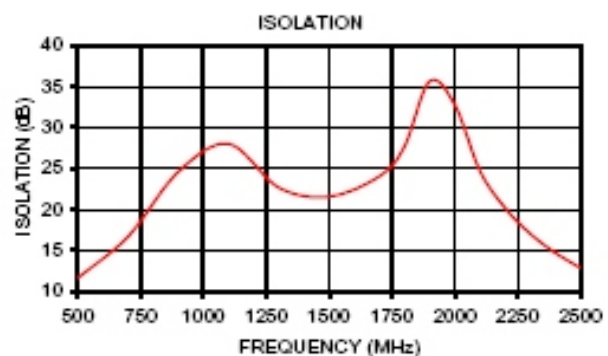
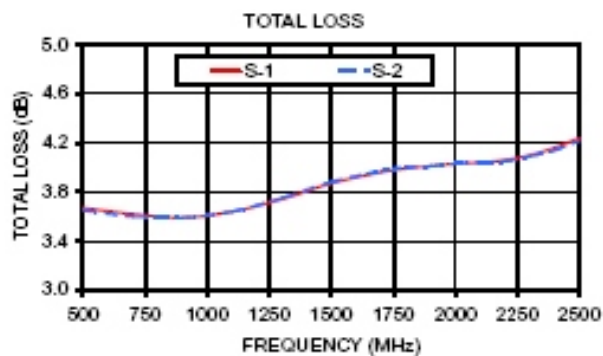
### Maximum Ratings

Operating Temperature	-40° C to 85° C
Storage Temperature	-55° C to 100° C
Power Input (as a splitter)	1.5W max.
Internal Dissipation	0.75W max.

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



Electrical Description			
1	Frequency	500-2500MHz	
2	Insertion Loss Max.	0.9-1.7dB	ABOVE 3 dB
3	Isolation Min.	10dB	22 dB Max.
4	Phase Unbalance (Degree) Max.	4.0°	
5	Amplitude Unbalance Max..	0.2dB	
6	VSWR Max.	1.57:1	
7	Power handing Max. (watt)	1watt	
8	Connectors	SMA/BNC/N	
9	Impedance	50 Ohm	



# Power Splitter/Combiner

2 Way-0° 50Ω 800 to 2200 Mhz OPD800-2200-2-S

### Features

- wide bandwidth, 800 to 2200 MHz.
- excellent isolation, 25 dB typ.
- excellent amplitude unbalance, 0.01 dB typ.
- very good phase unbalance, 1 deg. typ.
- small size
- low cost

### Applications

- PCN
- GPS
- defense
- communications
- DCS
- GSM
- cellular
- WCDMA

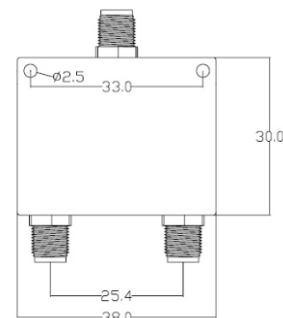
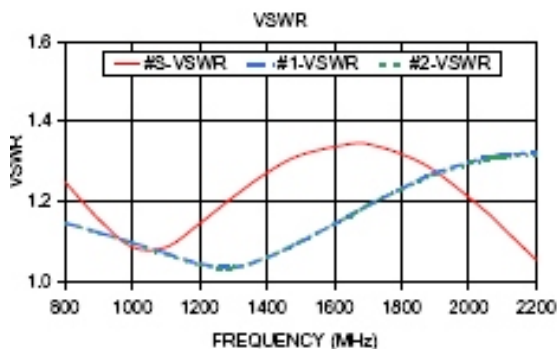
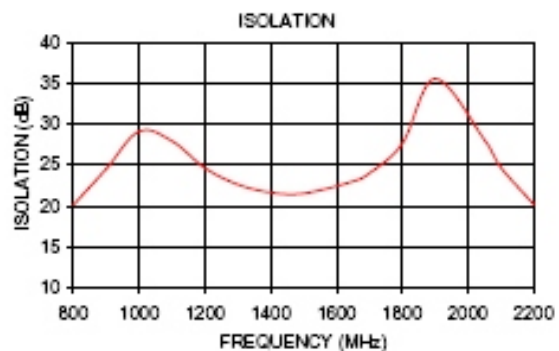
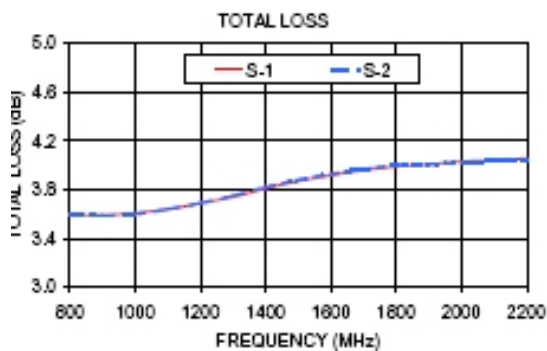
### Maximum Ratings

Operating Temperature	-40° C to 85° C
Storage Temperature	-55° C to 100° C
Power Input (as a splitter)	10W max.
Internal Dissipation	0.75W max.

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



Electrical Description			
1	Frequency	800-2200MHz	
2	Insertion Loss Max.	0.8-1.5dB	ABOVE 3 dB
3	Isolation Min.	17dB	24 dB Max.
4	Phase Unbalance (Dgree) Max.	4.0°	
5	Amplitude Unbalance Max. .	0.2dB	
6	VSWR Max.	1.34:1	
7	Power handing Max. (watt)	2watt	
8	Connectors	SMA/BNC/N	
9	Impedance	50 Ohm	



Outline Drawing



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## Power Splitter/Combiner

2 Way-0° 50Ω 1000 to 2000 Mhz OPD1000-2000-2-S

### Features

- low insertion loss, 0.25 dB typ.
- good isolation, 25 dB typ.
- up to 10W power input as splitter
- excellent amplitude unbalance, 0.1 dB typ.
- excellent phase unbalance, 0.5 deg. typ.
- excellent VSWR, 1.1:1 typ.

### Applications

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

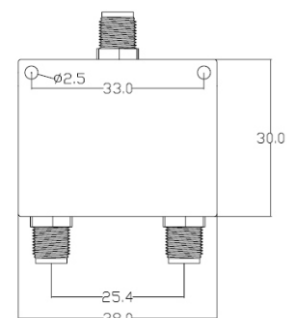
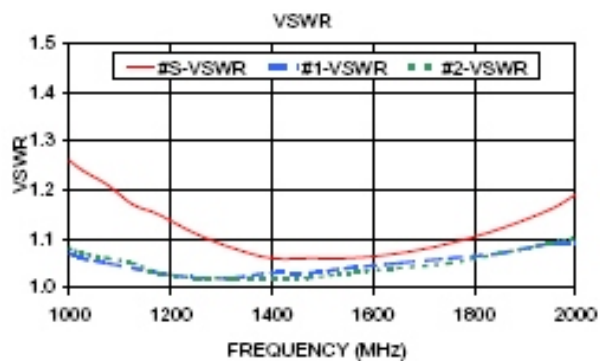
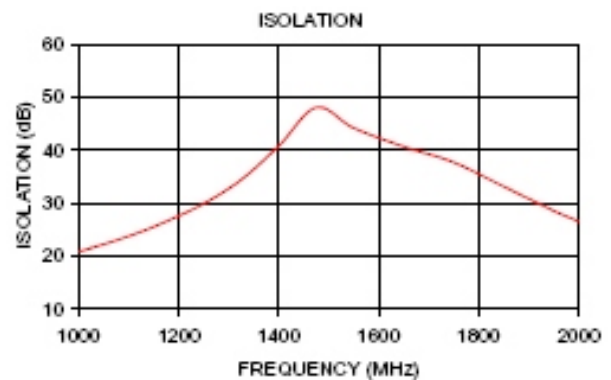
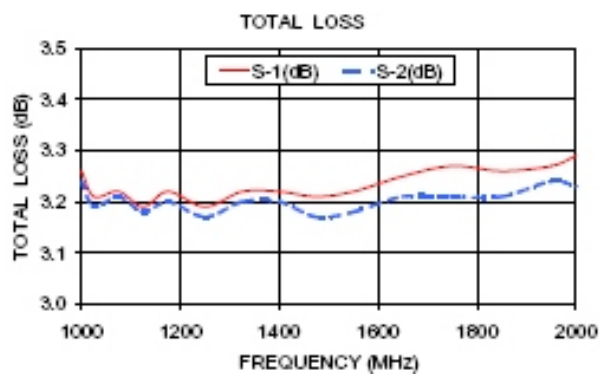
### Maximum Ratings

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.

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



Electrical Description			
1	Frequency	1000-2000MHz	
2	Insertion Loss Max.	0.6dB	ABOVE 3 dB
3	Isolation Min.	19dB	
4	Phase Unbalance (Degree) Max.	2.0°	
5	Amplitude Unbalance Max. .	0.2dB	
6	VSWR Max.	1.26:1	
7	Power handing Max. (watt)	10watt	
8	Connectors	SMA/BNC/N	
9	Impedance	50 Ohm	



Outline Drawing



## Power Splitter/Combiner

2 Way-0° 50Ω 2000 to 8000 Mhz OPD2000-8000-2-S

### Features

- very wideband, 2000 to 10000 MHz
- low insertion loss, 0.5 dB typ.
- excellent amplitude unbalance, 0.1 dB typ.
- rugged shielded case

### Applications

- instrumentation
- satellite communications
- defense communications

### 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.

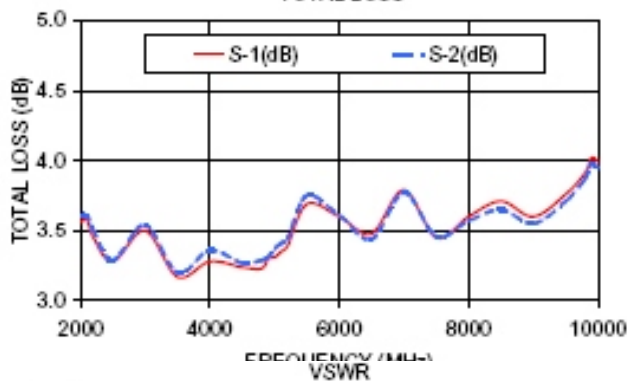
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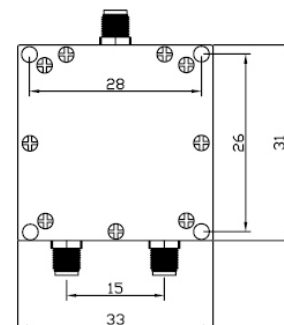
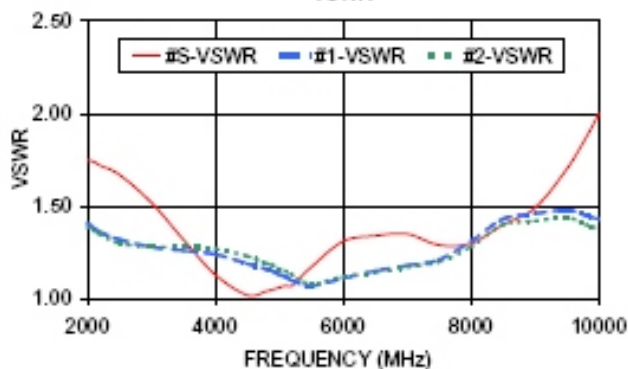
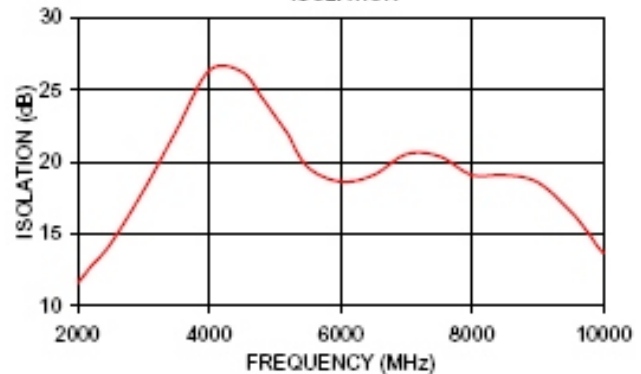
## Electrical Description

1	Frequency	2000-8000MHz	
2	Insertion Loss Max.	0.5-1.6dB	ABOVE 3 dB
3	Isolation Min.	9dB	20 dB Max.
4	Phase Unbalance(Dgree)Max.	7.0°	
5	Amplitude Unbalance Max. .	0.6dB	
6	VSWR Max.	1.80:1	
7	Power handing Max. (watt)	10watt	
8	Connectors	SMA	
9	Impedance	50 Ohm	

TOTAL LOSS



ISOLATION



Outline Drawing