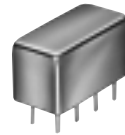


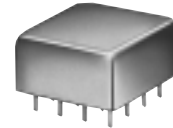
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continuous facing pages.**

# POWER SPLITTERS/COMBINERS 50&75Ω Plug-In

## 4 WAY-0° 10 kHz to 1000 MHz



PSC-4



PSC-4A

MODEL NO.	FREQ. RANGE MHz $f_L$ - $f_U$	ISOLATION dB						INSERTION LOSS, dB Above 6dB						PHASE UNBALANCE Degrees			AMPLITUDE UNBALANCE dB			CASE STYLE Note B	CONNECTION	PRICE \$ Qty. (1-9)
		L		M		U		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.	Max.	Max.			
PSC-4-1	0.1-200	33	20	30	20	27	20	0.4	0.6	0.5	0.75	0.7	1	4	6	8	0.15	0.2	0.25	A01	bf	37.95
PSC-4-1W	1-500	29	20	27	18	25	18	0.4	0.8	0.5	1	0.8	1.5	1	3	5	0.2	0.3	0.5	A01	bf	40.95
■ PSC-4-1-75	1-200	30	20	25	20	25	20	0.4	0.7	0.5	0.9	0.7	1.2	2	3	4	0.15	0.2	0.3	A01	bf	34.95
PSC-4-3	0.25-250	33	20	30	20	27	20	0.4	0.7	0.5	0.75	0.7	1.2	4	6	8	0.15	0.2	0.25	A01	bf	33.95
PSC-4-5	1-800	29	20	24	18	25	17	0.4	0.8	0.6	1.5	1.3	2.5	1	4	5	0.2	0.5	0.6	A01	bf	47.45
⊕ PSC-4-6	0.01-40	35	18	32	25	25	18	0.4	0.8	0.3	0.5	0.5	1	2	2	2	0.1	0.15	0.2	A01	bf	38.95
PSC-4A-4	10-1000	25	20	21	15	18	15	0.5	0.8	0.8	1.8	1.5	2.5	4	16	20	0.2	0.5	0.7	C07	bg	64.95
⊕ PSC-4A-1W-75	30-600	27	20	—	—	22	18	0.6	0.8	—	—	0.8	1.1	2	—	5	0.2	—	5	C07	bg	51.95

L = low range [ $f_L$  to  $10 f_L$ ]

M = mid range [ $10 f_L$  to  $f_U/2$ ]

U = upper range [ $f_U/2$  to  $f_U$ ]

### NOTES:

- ◆ Aqueous washable.
- Non-hermetic
- Denotes 75 Ohm model
- ⊕ When only specification for M range given, specification applies to entire frequency range.
- ⊕ At low range frequency band ( $f_L$  to  $10 f_L$ ), linearly derate maximum power by 13 dB.
- ⊕ Maximum VSWR: input 1.5:1, output 1.3:1
- \* BLUE CELL™ power splitters protected by U.S. patents 5,534,830 and 5,640,132
- ◆ 18 dB min. above 900 MHz for BP4C and above 1900 MHz for BP4P
- A. General Quality Control Procedures, Environmental Specifications, Hi-Rel and MIL description are given in section 0, see "Mini-Circuits Guarantees Quality" article.
- B. Connector types and case mounted options, case finishes are given in section 0, see "Case styles & Outline Drawings".
- C. Prices and specifications subject to change without notice.
- 1. Absolute maximum power, voltage and current ratings:
  - 1a. Matched power rating,
 

Model JS4PS-1W-75	0.250 Watt
Models PSC-4-5, PSC-4-1W, SCP-4-1W-75,	0.5 Watt
JS4PS-9-75, AD4PS-1	0.5 Watt
Models BP4C, BP4P	1.5 Watt
Model SBD-4-25	10 Watt
All other models	1 Watt
  - 1b. Internal load dissipation,
 

Model JS4PS-1, JS4PS-9-75	0.5 Watt
Models SCP-4-1W-75, SCP-4-4-75,	0.375 Watt
BP4C, BP4P, SBD-4-25	0.375 Watt
All other models	0.250 Watt



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# Surface Mount □

## 1 to 2600 MHz



ADPS



BP



SBD



JS4PS



SCP

BLUE CELL

MODEL NO.	FREQ. RANGE MHz $f_L$ - $f_U$	ISOLATION dB			INSERTION LOSS, dB Above 6dB			PHASE UNBALANCE Degrees			AMPLITUDE UNBALANCE dB			CASE STYLE Note B	CONNECTION	PRICE \$ Qty. (10-49)						
		L Typ. Min.	M <sup>o</sup> Typ. Min.	U Typ. Min.	L Typ. Max.	M <sup>o</sup> Typ. Max.	U Typ. Max.	L Max.	M <sup>o</sup> Max.	U Max.	L Max.	M <sup>o</sup> Max.	U Max.									
◆ AD4PS-1	1-500	32	18	30	20	25	18	0.4	1.2	0.5	1.2	0.8	1.8	2	5	7	0.4	0.5	0.8	CJ725	kb	14.95
◆ BP4C	810-960			25	19	◇				1.0	1.5				8			0.6		XX211	js	1.99
◆ BP4P	1710-1990			23	19	◇				0.8	1.3				15			0.5		XX211	js	1.79
◆ SBD-4-25	1800-2600			20	12					1.0	1.9				8			0.7		SM34	lj	9.95
	1800-2000			18	12					0.9	1.4				6			0.4				
	2100-2200			21	15					0.9	1.4				6			0.4				
	2200-2400			22	15					1.0	1.6				7			0.6				
	2400-2500			22	16					1.0	1.8				7			0.7				
◆ JS4PS-1	80-520			36	20					0.8	1.5				5			0.5		BJ360	kb	19.95
◆ JS4PS-1W-75	5-750	34	25	35	25	30	18	0.6	1.2	0.6	1.5	0.8	1.5	3	5	6	0.2	0.3	0.6	BJ360	kb	18.95
◆ JS4PS-9-75	50-860			25	16					0.6	1.9				5			0.8		BJ360	kb	20.95
SCP-4-1	1-400	32	23	26	18	21	17	0.4	1.2	0.6	1.2	1.0	1.5	1	4	9	0.2	0.3	0.5	YY101	bv	24.95
SCP-4-1W	10-650	34	28	23	18	21	15	0.7	1.0	0.9	1.5	1.1	1.9	3	7	12	0.2	0.4	0.7	YY101	bv	26.95
SCP-4-1W-75	10-750	36	20	32	20	24	15	0.5	1.0	0.65	1.3	0.8	2.0	1.5	3	6	0.2	0.4	0.9	YY161	bv	27.95
SCP-4-4	800-1000			24	17					0.7	1.5				12			1.0		YY101	bv	21.95
SCP-4-4-75	10-1000	36	20	32	18	24	14	0.5	1.0	0.65	1.3	0.8	2.0	3	6	12	0.2	0.4	0.9	YY161	bv	28.95

L = low range [ $f_L$  to  $10 f_L$ ]

M = mid range [ $10 f_L$  to  $f_U/2$ ]

U = upper range [ $f_U/2$  to  $f_U$ ]

### pin and coaxial connections

see case style outline drawing

PORT	bf	bg	bv	js	kb	lj
SUM PORT	4	2	3	2	2	4
PORT 1	7	8	2	1	8	8
PORT 2	8	12	4	8	7	10
PORT 3	1	5	6	5	6	12
PORT 4	2	9	8	4	5	14
GND EXT.	3,5,6	All other pins	1,5,7	3,6,7	1,3,4	2,3,5,6,9,13
CASE GND	3,5,6	All other pins	—	—	—	—
NOT USED	—	—	—	—	—	1,7,11

### NSN GUIDE

MCL NO.	NSN	MIL-P-23971/15*
PSC-4-1	5895-01-065-0106	-10
PSC-4-2	5825-01-044-8945	
PSC-4-3	5895-01-105-6189	-11
PSC-4-5	5985-01-423-7929	
PSC-4-6	5985-01-332-3086	
PSC-4A-4	5895-01-347-0205	



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# POWER SPLITTERS/COMBINERS

50&75Ω

## 4 WAY-0° 2 kHz to 8.4 GHz



ZBSC-4



ZFSC-4



ZMSC-4



ZSC-4

MODEL NO.	FREQ. RANGE MHz $f_L$ - $f_U$	ISOLATION dB					INSERTION LOSS, dB Above 6dB						PHASE UNBALANCE Degrees			AMPLITUDE UNBALANCE dB			CASE STYLE Note B	CONNECTION	PRICE \$ Qty. (1-9)	
		L	M	U	L	M	U	L	M	U	L	M	U	L	M	U						
ZBSC-413	10-800	26	20	18	15	18	15	0.6	1	1	1.5	1.6	2	4	8	8	0.2	0.4	0.6	UU102	bh	99.95
ZFSC-4-1	1-1000	25	20	23	18	20	15	0.4	1.2	0.6	1.5	1.6	2.5	4	8	8	0.2	0.4	0.7	G15	bh	89.95
ZFSC-4-1W	10-500	23	20	23	20	23	20	0.6	1.5	0.6	1.5	0.6	1.5	4	8	8	0.2	0.3	0.4	G15	bh	84.95
ZFSC-4-3	10-300	32	28	38	30	38	30	0.5	0.8	0.6	0.9	0.9	1.2	4	6	8	0.1	0.1	0.2	G15	bh	78.95
■ ZFSC-4375	50-90	34	30	34	30	34	30	0.3	0.8	0.3	0.8	0.3	0.8	4	6	8	0.15	0.15	0.15	G15	bh	89.95
■ ZFSC-4-175	10-1000	35	25	38	20	22	18	0.5	0.8	0.6	1.2	0.9	2	—	—	—	0.2	0.3	0.6	G15	bh	89.95
■ ZFSC-4-175W	5-1000	34	22	36	22	27	20	0.5	0.8	0.5	1.2	0.9	1.9	1	3	5	0.2	0.2	0.5	G15	bh	89.95
ZMSC-4-1	0.1-200	33	20	30	20	27	20	0.4	0.6	0.5	0.75	0.7	1.0	4	6	8	0.15	0.20	0.25	N24	bh	66.95
✦ ZMSC-4-2	0.002-20	30	20	33	25	33	25	0.45	0.75	0.3	0.5	0.7	1.0	4	6	8	0.15	0.20	0.25	N24	bh	76.95
ZMSC-4-3	0.25-250	33	20	30	20	27	20	0.4	0.7	0.5	0.75	0.7	1.2	4	6	10	0.15	0.20	0.25	N24	bh	64.95
ZSC-4-1	0.1-200	33	20	30	20	27	20	0.4	0.6	0.5	0.75	0.7	1.0	4	6	8	0.15	0.20	0.25	N27	bh	59.95
■ ZSC-4-1-75	1-200	30	20	25	20	25	20	0.4	0.7	0.5	0.8	0.7	1.2	4	6	10	0.15	0.20	0.30	N27	bh	59.95
✦ ZSC-4-2	0.002-20	30	20	33	25	33	25	0.45	0.75	0.3	0.5	0.7	1.0	4	6	8	0.15	0.20	0.25	N27	bh	74.95
ZSC-4-3	0.25-250	33	20	30	20	27	20	0.4	0.7	0.5	0.75	0.7	1.2	4	6	10	0.15	0.20	0.25	N27	bh	56.95
■ ZSC-4-3-75	0.25-250	28	20	30	20	27	20	0.4	0.8	0.3	0.7	0.5	1.0	1	2	3	0.15	0.20	0.25	N27	bh	56.95

L = low range [ $f_L$  to  $10 f_L$ ]

M = mid range [ $10 f_L$  to  $f_U/2$ ]

U = upper range [ $f_U/2$  to  $f_U$ ]

### NOTES:

- Denotes 75 Ohm model, for coax connector models 75 Ohm BNC connectors are standard.
- ✦ When specification for only M range given, specification applies to entire frequency range.
- ▲ Available only with SMA connectors.
- ✦ At low range frequency band ( $f_L$  to  $10f_L$ ), linearly derate maximum power by 13 dB.
- \* Maximum VSWR: input 1.5:1, output 1.3:1
- A. General Quality Control Procedures, Environmental Specifications, Hi-Rel and MIL description are given in section 0, see "Mini-Circuits Guarantees Quality" article.
- B. Connector types and case mounted options, case finishes are given in section 0, see "Case styles & Outline Drawings".
- C. Prices and specifications subject to change without notice.
- 1. Absolute maximum power, voltage and current ratings:
  - 1a. Matched power rating,
    - Models ZA4PD, ZB4PD, ZB4PD1 (except -500-75), ZN4PD, ZC4PD 10W
    - Model ZC4PD-18 5W
    - All other models 1W
  - 1b. Internal load dissipation,
    - Model ZB4PD-1750-75 0.750W
    - Models ZA4PD, ZB4PD-4, ZB4PD, ZB4PD1, ZN4PD, ZC4PD 0.375W
    - ZFSC-4-175W 0.5W
    - All other models 0.250W

# Coaxial



MODEL NO.	FREQ. RANGE MHz $f_L$ - $f_U$	ISOLATION dB			INSERTION LOSS, dB Above 6dB			PHASE UNBAL. Degrees			AMPLITUDE UNBAL. dB			VSWR (:1)		CASE STYLE Note B	ZOC	PRICE \$ Qty. (1-9)					
		L Typ.	M <sup>o</sup> Min.	U Typ.	L Typ.	M <sup>o</sup> Max.	U Typ.	L Max.	M <sup>o</sup> Max.	U Max.	L Max.	M <sup>o</sup> Max.	U Max.	S Typ.	OUT Typ.								
ZA4PD-2	1000-2000		25	16		0.3	1.0		6		0.70				DD52	bh	89.95						
ZA4PD-4	2000-4200		25	16		0.5	1.0		16		0.80			DD52	bh	89.95							
■ ZB4PD-1750-75	875-1750		30	20		0.4	0.8		3		0.40	1.08	1.50	1.25	1.50	UU188	bh	99.95					
ZB4PD-42	1700-4200		23	16		0.5	1.4		8		0.80				Z54	bh	99.95						
ZB4PD-4	3700-4200		24	15		0.6	1.1		8		0.80				Z54	bh	94.95						
▲ ZB4PD-6.4	5400-6800		25	18		0.6	1.2		9		0.90	1.15	1.30	1.10	1.30	UU188	bh	99.95					
ZB4PD1-500	5-500	34	20	34	20	28	20	0.4	1.0	0.5	0.9	0.9	1.5	1	3	6	0.2	0.2	0.4	UU188	bh	79.95	
■ ZB4PD1-500-75	5-500	34	20	34	20	30	20	0.45	1.0	0.6	0.9	1.0	1.5	1	3	6		0.20		UU188	bh	89.95	
ZB4PD1-930	850-930		30	20				0.3	0.5					5			0.25			UU188	bh	99.95	
ZB4PD1-930W	725-1050		22	15				0.3	0.8					5			0.40			UU188	bh	94.95	
ZB4PD1-2000	800-2000		25	18				0.6	1.2					—			1.20	1.60	1.10	1.30	UU188	bh	94.95
ZB4PD1-5.8	4600-5800		25	16				0.4	0.9					5			1.10	1.60	1.15	1.55	UU188	bh	29.95
ZB4PD1-8.4	6700-8400		29	18				0.5	1.3					9			1.12	1.50	1.27	1.50	UU188	bh	149.95
ZC4PD-18	1000-1800		32	18				0.3	0.8					6			1.05	1.55	1.08	1.45	Z184	bh	91.95
ZC4PD-900	800-900		30	20				0.3	0.6					3			1.08	1.25	1.17	1.30	Z184	bh	89.95
ZN4PD-920	800-920		30	20				0.25	0.5					2			1.08	1.25	1.07	1.25	UU182	bh	84.95
ZN4PD-920W	670-1000		22	15				0.3	0.6					3			1.20	1.60	1.07	1.25	UU182	bh	79.95
ZN4PD-20	1800-2000		31	20				0.3	0.7					4			0.50				UU182	bh	89.95

L = low range [ $f_L$  to  $10 f_L$ ]

M = mid range [ $10 f_L$  to  $f_U/2$ ]

U = upper range [ $f_U/2$  to  $f_U$ ]

### coaxial connections

see case style outline drawing

PORT	bh
SUM PORT	S
PORT 1	1
PORT 2	2
PORT 3	3
PORT 4	4

### NSN GUIDE

MCL NO.	NSN
ZBSC-413(SMA)	5985-01-370-6145
ZFSC-4-1	6625-01-303-4623
ZFSC-4-1(SMA)	6625-01-303-4623
ZFSC-4-1A	5825-01-227-6681
ZFSC-4-1W(SMA)	5985-01-372-6418
ZFSC-4-1WB(SMA)	5985-01-364-1944
ZFSC-4-3B	5985-01-253-2843
ZMSC-4-1B	4935-01-229-3228
ZMSC-4-1BR	5895-01-451-0601
ZSC-4-1B	5820-00-270-3056
ZSC-4-1B(BNC)	6625-00-270-3056
ZSC-4-1B(TNC)	6625-01-109-3707
ZSC-4-1-75	5998-01-228-8995
ZSC-4-2BR	6625-01-357-2227
ZSC-4-2B(BNC)	5820-01-120-5238
ZSC-4-3B	6625-01-038-8553



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