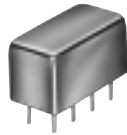
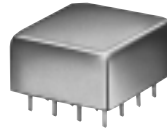


# POWER SPLITTERS/COMBINERS 50&75Ω Plug-In

## 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 <sup>†</sup>	0.5	0.75	0.7	1.0	4	6	8	0.15 <sup>†</sup>	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	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  $10f_L$ ), linearly derate maximum power by 13 dB.
- ⊕ Maximum VSWR: input 1.5:1, output 1.3:1
- † Adjacent ports, 25°C
- \* 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, JS4PS-1W, SCA-4-10 ..... 0.5 Watt
    - Models BP4C, BP4P ..... 1.5 Watt
    - Model SCA-4-20 ..... 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, JS4PS-1W, SCA-4-10 ... 0.375 Watt
    - All other models ..... 0.250 Watt

### 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	

\* units are not OPL listed



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ISO 9001 CERTIFIED

# Surface Mount $\square$

## 1 to 2600 MHz

**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	PCB Lay-out PL-	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	072	14.95
◆ BP4C	810-960			25	19					1.0	1.6							0.6		XX211	js	113	1.99
◆ BP4P	1710-1990			23	19					0.8	1.3							0.5		XX211	js	113	1.79
◆ SBD-4-25*	1800-2600			20	12					1.0	1.9							0.7		SM34	lj		9.95
	1800-2000			18	12					0.9	1.4							0.4					
	2100-2200			21	15					0.9	1.4							0.4					
	2200-2400			22	15					1.0	1.6							0.6					
	2400-2500			22	16					1.0	1.8							0.7					
NEW◆ SCA-4-10	5-1000			—						—								—		DZ943	ny	124	6.95
	5-400			30	20					0.7	1.3							0.8					
	400-600			25	17					0.8	1.5							0.7					
	600-1000			20	15					1.2	2.5							0.9					
NEW◆ SCA-4-10-75	10-1000			30	22					1.2	2.3							1.2		DZ943	ny	133	6.95
	10-400									1.5	2.2							0.9					
	400-750			25	18					2.0	2.5							0.9					
	750-1000			20	15																		
NEW◆ SCA-4-15-75	10-1500			19	14					0.5	1.3							0.8		DZ943	ny	133	7.95
	10-40			25	18					1.2	2.0							0.9					
	40-1000			19	15					1.4	2.6							0.9					
	1000-1500																						
NEW◆ SCA-4-20	1000-2000			15	8					1.0	1.5							0.7		DZ944	ny	125	7.95
	1500-1700			20	17					1.0	1.2							0.8					
	1700-2000			20	17					1.2	1.5							0.9					
NEW◆ JS4PS-1W	5-1000	29	20	26	18	20	15	0.3	1.1	0.8	1.5	1.5	2.4	5	5	12	0.8	0.7	0.7	BK377	ng	091	14.95
◆ JS4PS-1	80-520			36	20					0.8	1.5							0.5		BJ360	kb	101	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	101	18.95
◆ JS4PS-9-75	50-860			25	16					0.6	1.9							0.8		BJ360	kb	101	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	073	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	073	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							1.0		YY101	bv	073	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	ng	ny
SUM PORT	4	2	3	2	2	4	10	3
PORT 1	7	8	2	1	8	8	2	6
PORT 2	8	12	4	8	7	10	3	7
PORT 3	1	5	6	5	6	12	5	9
PORT 4	2	9	8	4	5	14	6	10
GND EXT.	3,5,6	All other pins	1,5,7	3,6,7	1,3,4	2,3,5,6,9,13	1,4,7,8,9	1,2,4,5,8
CASE GND	3,5,6	All other pins	—	—	—	—	—	—
NOT USED	—	—	—	—	—	1,7,11	—	—
DEMO BOARD	—	—	TB-36	TB-231	TB-81 (AD4PS) TB-215 (JS4PS)	—	—	TB-238 (SCA-4-10) TB-247 (SCA) 75Ω TB-241 (SCA-4-20)



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