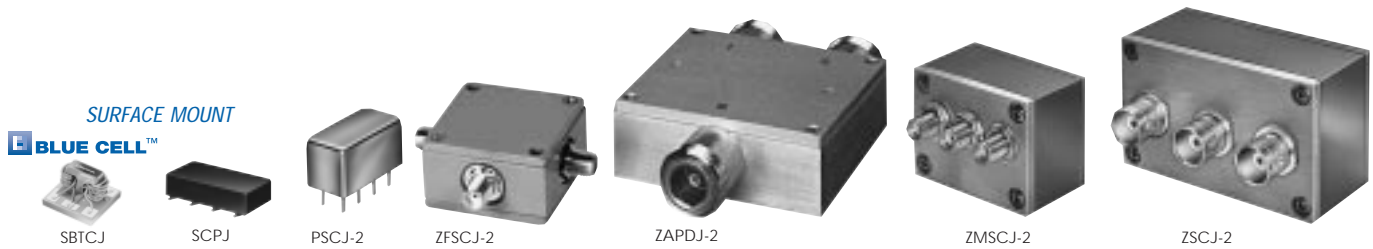


# POWER SPLITTERS/COMBINERS

50 & 75Ω

## 2 WAY-180° 10 kHz to 2 GHz



MODEL NO.	FREQ. RANGE MHz $f_L$ - $f_U$	ISOLATION dB			INSERTION LOSS, dB Above 3dB			PHASE UNBALANCE Degrees			AMPLITUDE UNBALANCE dB			CASE STYLE Note B	CONNECTION LAY-OUT PL-	PCB Lay-out Qty. (10-49)	PRICE \$
		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.				
NEW ♦ SBTCJ-1W	1-750	23	20	24	0.6	1.7	0.9	3	7	10	0.2	0.4	0.9	AT790	nk	117	10.95
SCPJ-2-9	200-900		24	17		1.0	1.8		6			0.7		YY161	az	060	28.95
SCPJ-2-750	30-750	24	18	21	0.7	1.5	1.5	2.2	1.5	2.2	0.8	0.8	0.8	YY161	az	060	27.95
■ SCPJ-2-1W-75	10-500	30	25	27	1.0	1.5	1.1	1.6	1.5	2.2	0.3	0.5	0.9	YY161	az	121	26.95
**■ SCPJ-2-750-75	30-750	26	20	—	1.0	1.5	—	—	1.5	2.2	0.8	—	0.9	YY161	az	121	27.95
PSCJ-2-1	1-200	35	30	35	0.75	1	0.5	0.8	0.75	1.2	0.3	0.15	0.3	A01	az	—	25.95
PSCJ-2-1W	100-600		30	20		1.0	1.9		6			0.5		A06	az	—	28.95
⊕ PSCJ-2-2	0.01-20	35	25	30	0.3	0.8	0.2	0.5	0.3	0.6	1*	2	2.5	A01	az	—	36.95
■ PSCJ-2-1-75	1-200	35	30	31	0.6	1.2	0.8	1.2	1.2	1.8	2	4	6	A01	az	—	25.95
ZFSCJ-2-1	1-500	30	20	33	1	1.5	1	1.5	1	1.5	2	4	7	K18	as	—	59.95
▲⊕ ZFSCJ-2-2	0.01-20	35	25	30	0.3	0.8	0.2	0.5	0.3	0.6	1*	2	2.5	K18	as	—	57.95
ZFSCJ-2-3	5-300	30	20	33	1	1.5	1	1.5	1	1.5	2	4	6	K18	as	—	49.95
▲ ZFSCJ-2-4	50-1000	30	20	—	1.2	1.9	—	—	1.6	2.4	6	—	7	K18	as	—	69.95
ZMSCJ-2-1	1-200	35	30	35	0.75	1	0.6	0.8	0.75	1.2	2	2.5	4	M21	at	—	57.95
⊕ ZMSCJ-2-2	0.01-20	35	25	30	0.3	0.8	0.2	0.5	0.3	0.6	1*	2	2.5	M21	at	—	67.95
ZSCJ-2-1	1-200	35	30	35	0.75	1	0.6	0.8	0.75	1.2	2	2.5	4	M22	at	—	51.95
⊕ ZSCJ-2-2	0.01-20	35	25	30	0.3	0.8	0.2	0.5	0.3	0.6	1*	2	2.5	M22	at	—	59.95
ZAPDJ-2	1000-2000	22	18	22	1.3	1.8	1.3	1.8	1.3	1.8	6	6	6	F53	as	—	71.95

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
- \* Phase unbalance is 3 degrees max from  $f_L$  to 3  $f_L$ .
- \*\* For SCPJ-2-750-75: L=30-375 MHz, U=375-750 MHz
- ⊕ When only specification for M range given, specifications applied to entire frequency range.
- Denotes 75 Ohm model, for coax connector models  
75 Ohm BNC connectors are standard.
- ▲ Available only with SMA connectors.
- ⊕ At low range frequency band ( $f_L$  to 10  $f_L$ ), linearly derate maximum input power by 13 dB.
- 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 ..... 1 Watt  
except models PSCJ-2-1W, SCPJ-2-1W-75,  
SCPJ-2-750, SCPJ-2-750-75, AMT-2, SBTCJ-1W ..... 0.5 Watt
  - 1b. Internal load dissipation ..... 0.125 Watt



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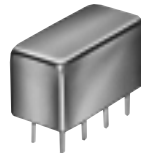
Surface Mount <sup>□</sup>, Plug-In & Coaxial

# 2 Way-0°/180° 5 to 200 MHz

SURFACE MOUNT



AMT



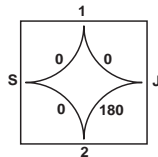
PMT

MODEL NO.	FREQ. RANGE MHz $f_L$ - $f_U$	ISOLATION dB			INSERTION LOSS, dB Above 3dB			PHASE UNBALANCE Degrees			AMPLITUDE UNBALANCE dB			CASE STYLE Note B	NSN NO-T-C-M-Z-0-C	PRICE \$ Qty. (10)						
		L Typ. Min.	M° Typ. Min.	U Typ. Min.	L Typ. Max.	M° Typ. Max.	U Typ. Max.	L Max.	M° Max.	U Max.	L Max.	M° Max.	U Max.									
AMT-2	50-200		35	20		0.8	1.2		2		0.3		CD636	Is	12.95							
PMT-1	5-200	22	20	24	20	24	18	0.8	1.0	0.9	1.1	1.0	1.5	2	4	8	0.1	0.2	0.5	A04	ba	21.95

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  $f_U$ ]



- S-J ports, isolation 40 dB typical
- Inphase ports, S-1 and S-2, insertion loss 0.2 dB typical
- Amplitude unbalance defined by input S or J ports to output 1 and 2

### pin and coaxial connections

see case style outline drawing

PORT	as	at	az	ba	Is	nk
SUM PORT	S	2	1	1	3	6
PORT 1	1	1	5	2	6	1
PORT 2	2	3	6	3	4	3
PORT J	—	—	—	4	1	—
GND EXT.	—	—	2,3,4,7,8	5,6,7,8	2,5	2,4
CASE GND	—	—	2,3,4,7,8	5,6,7,8	—	—
NOT USED	—	—	—	—	—	5
DEMO BOARD	—	—	TB-228	—	—	TB-227

### NSN GUIDE

#### MCL NO.

PSCJ-2-1  
PSCJ-2-2  
ZSCJ-2-2

#### NSN

6625-01-413-2386  
5985-01-332-3084  
5895-01-340-7761



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