

POWER SPLITTERS/COMBINERS

50 & 75Ω

2 Way-0° 5 MHz to 2.6 GHz

BLUE CELL™



MODEL◆ NO.	FREQ. RANGE MHz f_L - f_U	ISOLATION dB		INSERTION LOSS dB Above 3dB		PHASE UNBALANCE Degrees	AMPLITUDE UNBALANCE dB	CASE STYLE	CON- NEX- TION	PCB Lay- out PL-	PRICE \$
		Typ.	Min.	Typ.	Max.	Max.	Max.	Note B		Qty. (10-49)	
SBA-2-14*	1200-1600	16	10	0.6	1.0	5.0	0.5	SM1	lg	070	6.95
SBA-2-18*	1600-2000	19	13	0.4	1.0	6.0	0.6	SM1	lg	070	6.95
SBA-2-20*	1800-2200	22	13	0.5	1.1	7.0	0.7	SM2	lg	070	6.95
SBA-2-22*	2000-2600	18	10	0.8	1.6	10.0	0.8	SM2	lg	070	6.95
SBB-2-10*	800-1000	24	15	0.6	1.2	3.0	0.3	SM31	mu	003	4.95
SBB-2-13*	950-1300	24	15	0.6	1.3	3.0	0.6	SM31	mu	003	4.95
SBB-2-18*	1425-1800	22	16	0.6	1.2	4.0	0.3	SM31	mu	003	4.95
SBB-2-21W*	1700-2100	22	15	0.6	1.1	4.0	0.3	SM31	mu	003	4.95
	1800-2000	24	18	0.5	0.9	4.0	0.3				
SBB-2-23*	2000-2300	24	17	0.6	1.0	3.0	0.3	SM31	mu	003	4.95
	2100-2200	25	18	0.5	0.9	3.0	0.5				

features

- excellent temperature stability
- small size
- solder plated leads for excellent solderability
- SBTC models, patent pending
- low insertion loss, from 0.3 dB typical

NOTES:

- ◆ Aqueous washable.
- ★ When only specification for M range given, specification applies to entire frequency range.
- Denotes 75 Ohm model
- * BLUE CELL™ power splitters protected by U.S. patents 5,534,830 and 5,640,132
- A. Environmental specifications and re-flow soldering information available in General Information Section.
- B. Units are non-hermetic unless otherwise noted. For details on case dimensions & finishes 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,
 - SBTC Models 0.5 Watt
 - SBA Models 2 Watts
 - SBB, SCL Models 10 Watts
 - All other models 1 Watt
 - 1b. Internal load dissipation,
 - SBB Models 0.250 Watt
 - All other models 0.125 Watt

NEW!

BLUE CELL™



SBTC



SCL

MODEL NO.	FREQ. RANGE MHz f_L - f_U	ISOLATION dB						INSERTION LOSS, dB Above 3dB						PHASE UNBALANCE Degrees			AMPLITUDE UNBALANCE dB			CASE STYLE	CONNECTION	PCB Lay-out	PRICE \$
		L Typ.	L Max.	M° Typ.	M° Min.	U Typ.	U Max.	L Typ.	L Max.	M° Typ.	M° Max.	U Typ.	U Max.	L Max.	M° Max.	U Max.	L Max.	M° Max.	U Max.	Note B		PL- Qty. (25)	
SBTC-2-10	5-1000	29	20	25	18	21	16	0.3	0.7	0.3	0.8	0.5	1.4	3.0	3.0	5.0	0.6	0.5	0.5	AT790	nc	027	2.49
■ SBTC-2-10-75	10-1000	35	20	28	20	21	17	0.7	1.2	0.6	1.2	0.7	1.4	3.0	3.0	5.0	0.7	0.6	0.6	AT790	nc	028	3.49
■ SBTC-2-15-75	500-1500			28	18					0.8	1.5				5.0			0.9		AT790	nc	028	3.49
	700-1500			28	20					0.8	1.5				4.0			0.7					
SBTC-2-20	200-2000			20	14					0.8	2.2			10.0				0.8		AT790	nc	027	3.49
	800-1000			22	16					0.5	0.9			3.0				0.5					
	500-1500			22	15					0.5	1.5			5.0				0.7					
	1800-2000			20	15					1.2	2.2			10.0				0.6					
SBTC-2-25	1000-2500			20	14					1.4	2.5			14.0				1.2		AT790	nc	027	3.49
	1400-1800			18	14					0.9	1.7			8.0				0.7					
	1800-2000			19	16					1.0	1.7			8.0				0.8					
SCL-2-10	800-1000			30	18					0.5	1.0			4.0				0.25		QQQ828	gn	057	4.95

IMPEDANCE MATCHING 50 to 75Ω / 75 to 50Ω

SBTC-2-10-5075	50-1000	25	16	—	—	20	15	0.7	1.2	—	—	1.0	1.6	3.0	—	5.0	0.6	—	0.5	AT790	nc ¹	093	3.49
SBTC-2-10-7550	5-1000	23	13	24	20	26	20	0.5	1.3	0.6	1.1	0.7	1.5	6.0	3.0	5.0	0.8	0.5	0.5	AT790	nc ²	092	3.49

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 connections see case style outline drawings for pin locations

PORT	gn	lg	mu	nc	SBTC-2-10-5075 ¹	SBTC-2-10-7550 ²
SUM PORT	6	3	2	6	50 ohm	75 ohm
PORT 1	4	10	6	3	75 ohm	50 ohm
PORT 2	3	6	4	4	75 ohm	50 ohm
GND EXT.	1,2,5	all others	1,3,5	1,2	—	—
NOT USED	—	—	5	5	—	—
DEMO BOARD	TB-155	TB-95	TB-156	—	TB-146	TB-147