

Surface-Mount, Micro-Miniature

Power Splitter/Combiner

2 Way-0°, 50Ω, 5 to 1000 MHz

NEW!

SBTC-2-10



CASE STYLE: AT790
PRICE: \$1.99 ea.
QTY.: (100)

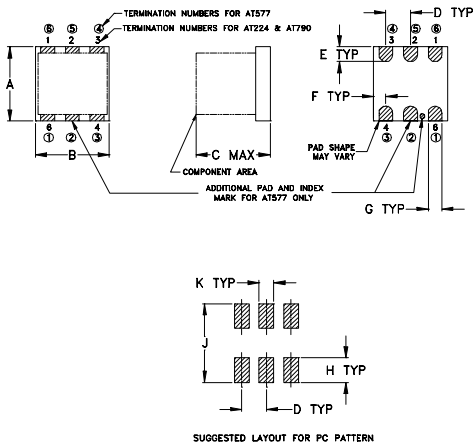
Maximum Ratings

Operating Temperature	-40°C to 85°C
Storage Temperature	-55°C to 100°C
Power Input (as a splitter)	0.5W max.
Internal Dissipation	0.125W max.

Pin Configuration

SUM PORT	6
PORT 1	3
PORT 2	4
GROUND	1,2
NOT USED	5

Outline Drawing



Outline Dimensions (inch/mm)

A	B	C	D	E	F	G
.150	.150	.150	.050	.030	.025	.028
3.81	3.81	3.81	1.27	0.76	.064	0.71
H	J	K				
.050	.160	.030	wt.			
1.27	4.06	0.76	grams			
			.15			

Features

- low insertion loss, 0.3 dB typ.
- excellent amplitude unbalance, 0.1 dB typ.
- very good phase unbalance, 1.0 deg. typ.
- small size, 0.15"x0.15"x0.15"
- temperature stable, BLUE CELL™ base
- solder plated leads for excellent solderability
- low cost
- patent pending

Applications

- cellular
- UHF/VHF receivers/transmitters

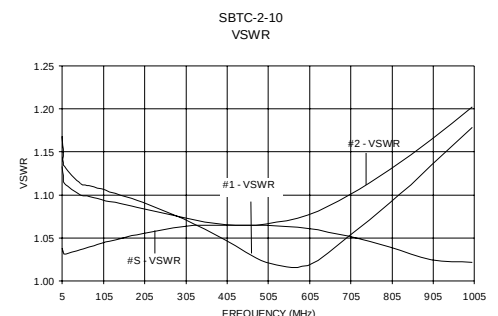
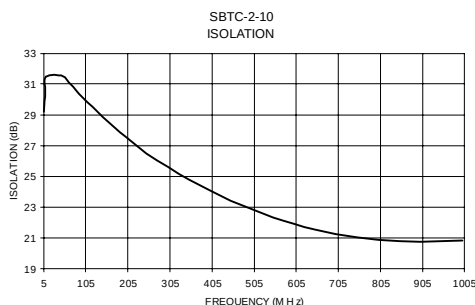
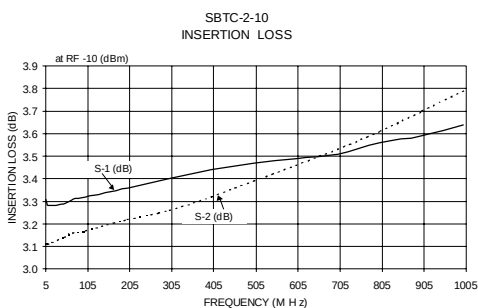
Electrical Specifications

FREQ. RANGE (MHz)	ISOLATION (dB)					INSERTION LOSS (dB) ABOVE 3.0 dB						PHASE UNBALANCE (Degrees)			AMPLITUDE UNBALANCE (dB)			
	L		M		U	L		M		U	L	M	U	L	M	U		
	Typ.	Min.	Typ.	Min.	Typ.	Typ.	Max.	Typ.	Max.	Typ.	Max.	Max.	Max.	Max.	Max.	Max.		
f _L -f _U	29	20	25	18	21	16	0.3	0.7	0.3	0.8	0.5	1.4	3	3	5	0.6	0.5	0.5
5-1000																		

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]

Typical Performance Data

Frequency (MHz)	Insertion Loss (dB) S-1	Insertion Loss (dB) S-2	Amplitude Unbalance (dB)	Isolation (dB)	Phase Unbalance (deg.)	VSWR S	VSWR 1	VSWR 2
5.00	3.31	3.11	0.27	29.20	0.95	1.04	1.17	1.13
7.00	3.29	3.11	0.24	30.51	0.73	1.03	1.15	1.12
10.00	3.28	3.11	0.24	31.47	0.48	1.03	1.13	1.11
50.00	3.29	3.14	0.23	31.53	0.03	1.04	1.11	1.10
70.00	3.31	3.16	0.23	30.93	0.09	1.04	1.11	1.10
100.00	3.32	3.17	0.23	30.07	0.18	1.04	1.11	1.09
200.00	3.36	3.22	0.22	27.57	0.45	1.05	1.09	1.08
300.00	3.40	3.26	0.21	25.59	0.62	1.06	1.07	1.07
400.00	3.44	3.32	0.18	24.06	0.74	1.06	1.05	1.07
500.00	3.47	3.39	0.15	22.88	0.96	1.06	1.02	1.07
600.00	3.49	3.46	0.11	21.91	1.05	1.06	1.02	1.08
700.00	3.51	3.53	0.06	21.28	1.16	1.05	1.05	1.10
800.00	3.56	3.61	0.01	20.90	1.26	1.04	1.09	1.13
900.00	3.59	3.70	0.05	20.73	1.32	1.02	1.13	1.16
1000.00	3.64	3.79	0.09	20.82	1.27	1.02	1.18	1.20



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