

Surface Mount, Micro-Miniature

Power Splitter/Combiners

SBTC-2-25+

SBTC-2-25L+

2 Way-0° 50Ω

1000 to 2500 MHz



No Leads

CASE STYLE:AT790
PRICE:\$3.49 ea. QTY (25)
\$2.69 ea. QTY (1000)



Leads

CASE STYLE:AT1029
PRICE:\$3.64 ea. QTY (25)
\$2.84 ea. QTY (1000)

Maximum Ratings

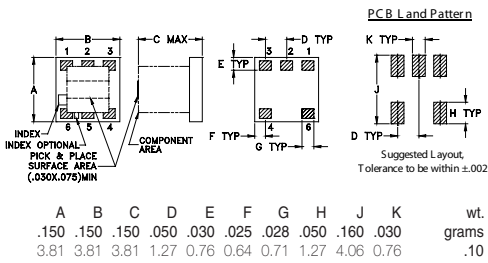
Operating Temperature	-40°C to 85°C
Storage Temperature	-55°C to 100°C
Power Input (as a splitter)	1W max.
Internal Dissipation	0.125W max.

Pin Connections

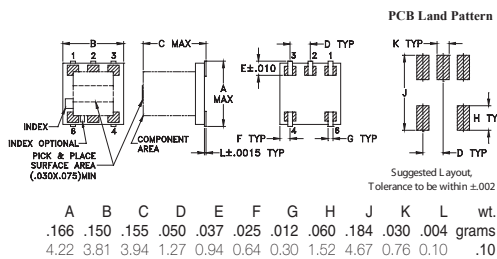
SUM PORT	6
PORT 1	3
PORT 2	4
GROUND	1,2
NOT USED	5

Outline Drawing / Dimensions (inch/mm)

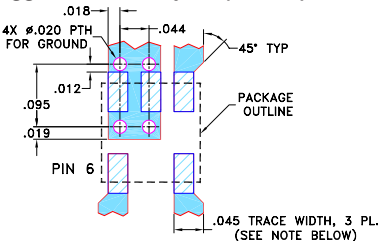
AT790 (SBTC-2-25+)



AT1029 (SBTC-2-25L+)



Demo Board MCL P/N: TB-274 Suggested PCB Layout (PL-152)



Features

- wide band frequency, 1000-2500 MHz
- excellent amplitude unbalance, 0.2 dB typ.
- small size, 0.166"x0.150"x0.155"
- temperature stable LTCC base
- small size
- low cost
- aqueous washable
- protected by US patent 6,963,255

Applications

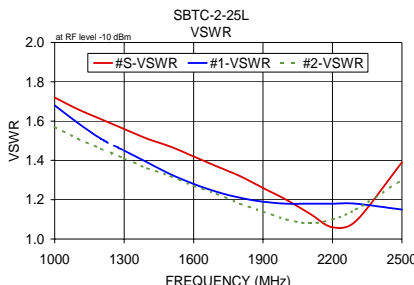
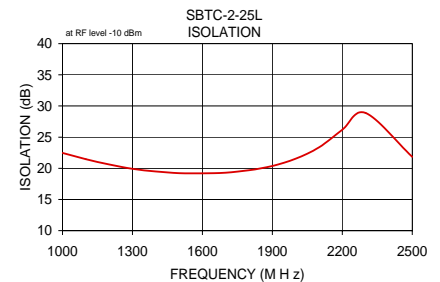
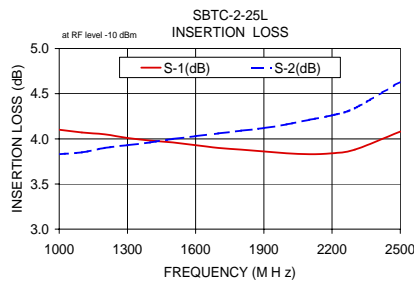
- PCN/PCS
- DECT
- PHS

Electrical Specifications

FREQ. RANGE (MHz)	ISOLATION (dB)	INSERTION LOSS ABOVE 3.0 dB	PHASE UNBALANCE (Degrees)	AMPLITUDE UNBALANCE (dB)
f_L - f_U	Typ. Min.	Typ. Max.	Max.	Max.
1000-2500	20 14	1.4 2.5	14	1.2
1400-1800	18 14	0.9 1.7	8	0.7
1800-2000	19 16	1.0 1.7	8	0.8

Typical Performance Data

Frequency (MHz)	Insertion Loss (dB)		Amplitude Unbalance (dB)	Isolation (dB)	Phase Unbalance (deg.)	VSWR S	VSWR 1	VSWR 2
	S-1	S-2						
1000.00	4.10	3.83	0.28	22.47	2.79	1.72	1.68	1.57
1100.00	4.07	3.85	0.21	21.47	2.54	1.66	1.59	1.51
1200.00	4.05	3.90	0.15	20.62	2.39	1.61	1.51	1.46
1300.00	4.01	3.93	0.08	19.92	2.34	1.56	1.45	1.41
1400.00	3.98	3.96	0.04	19.49	2.36	1.51	1.39	1.36
1500.00	3.96	4.00	0.05	19.21	2.47	1.47	1.33	1.32
1600.00	3.93	4.03	0.10	19.18	2.66	1.42	1.28	1.27
1700.00	3.90	4.06	0.16	19.29	2.92	1.37	1.24	1.23
1800.00	3.88	4.09	0.21	19.68	3.28	1.32	1.21	1.18
1900.00	3.86	4.12	0.27	20.37	3.70	1.26	1.19	1.14
2000.00	3.84	4.16	0.32	21.53	4.23	1.20	1.18	1.10
2100.00	3.83	4.21	0.37	23.36	4.87	1.13	1.18	1.08
2200.00	3.84	4.26	0.42	26.19	5.57	1.06	1.18	1.10
2300.00	3.88	4.34	0.46	28.88	6.36	1.09	1.18	1.15
2500.00	4.08	4.63	0.55	21.85	8.22	1.39	1.15	1.30



electrical schematic



Mini-Circuits
ISO 9001 ISO 14001 AS 9100 CERTIFIED

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IF/RF MICROWAVE COMPONENTS

Notes: 1. Performance and quality attributes and conditions not expressly stated in this specification sheet are intended to be excluded and do not form a part of this specification sheet. 2. Electrical specifications and performance data contained herein are based on Mini-Circuit's applicable established test performance criteria and measurement instructions. 3. The parts covered by this specification sheet are subject to Mini-Circuits standard limited warranty and terms and conditions (collectively, "Standard Terms"); Purchasers of this part are entitled to the rights and benefits contained therein. For a full statement of the Standard Terms and the exclusive rights and remedies thereunder, please visit Mini-Circuits' website at www.minicircuits.com/MCLStore/terms.jsp.

For detailed performance specs & shopping online see web site

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SBTC-2-25L+ ED-10035A/3
WZ/TD/CP
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