

Bluetooth® Balanced Band Pass Filter (for ST STLC2500C)

FI 212C245051

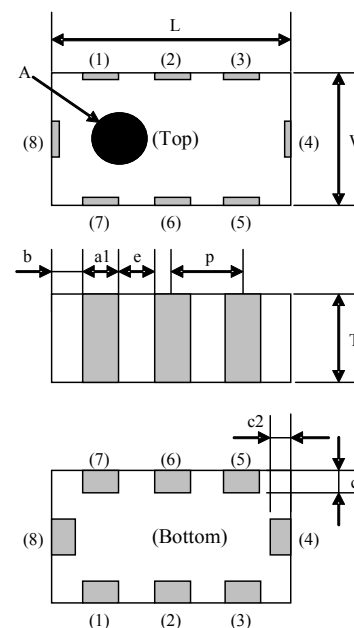


Electrical Characteristics

	Specification	Typical Data
Unbalanced Port Impedance	50 Ω	-
Balanced Port Impedance	Conjugated to STLC2500C Impedance	-
Pass Band frequency	2400 - 2500MHz	←
Insertion Loss at Pass band	3.7dB Max. (25deg-C)	2.99dB
	4.0dB Max. (-30~+85deg-C)	
Common Mode Suppression at Passband	20dB Min.	40dB
Ripple at Pass band	1.0dB Max.	0.37dB
Amp. Balance at Pass band	2.0dB Max.	0.23dB
Phase Balance at Pass band	180 +/- 10 deg.	179.2~180.0deg
Single Ended Port V.S.W.R. at	2.0 Max.	1.37
Balanced Port V.S.W.R. at	2.0 Max.	1.42
Common Mode Harmonic Reflection Coefficient	$ S_{cc22} < 0.6$ (@5000MHz)	0.362
Differential Mode Attenuation	824-960MHz	42dB Min. 59dB
	1570-1580MHz	12dB Min. 40dB
	1710-1785MHz	27dB Min. 34dB
	1805-1880MHz	25dB Min. 31dB
	1880-1990MHz	23dB Min. 29dB
Common Mode Attenuation	2110-2170MHz	20dB Min. 24dB
	88-108MHz	20dB Min. 26dB
	869-960MHz	23dB Min. 29dB
	1570-1580MHz	15dB Min. 40dB
	1805-1990MHz	20dB Min. 46dB
	2110-2170MHz	10dB Min. 50dB
	2700-2800MHz	7dB Min. 32dB
	4800-5000MHz	12dB Min. 19dB

Note : All the specifications are subject to change without notice.

Shapes & Dimensions

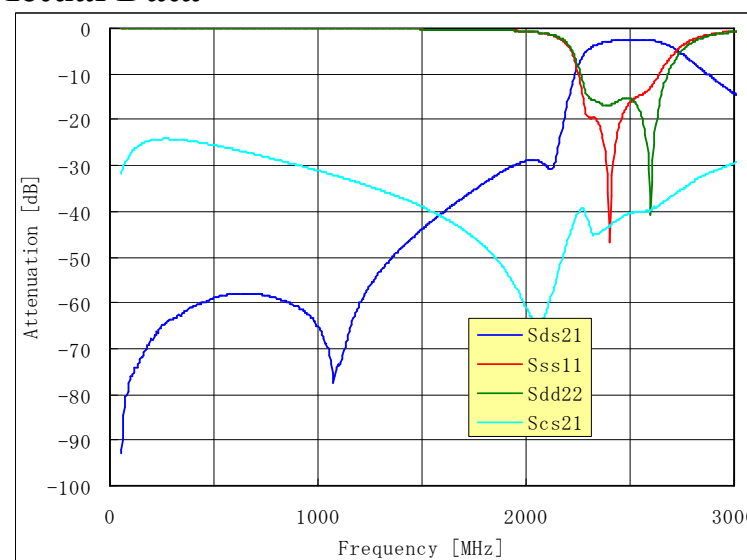


Mark	Meaning
A	Directional Input Mark

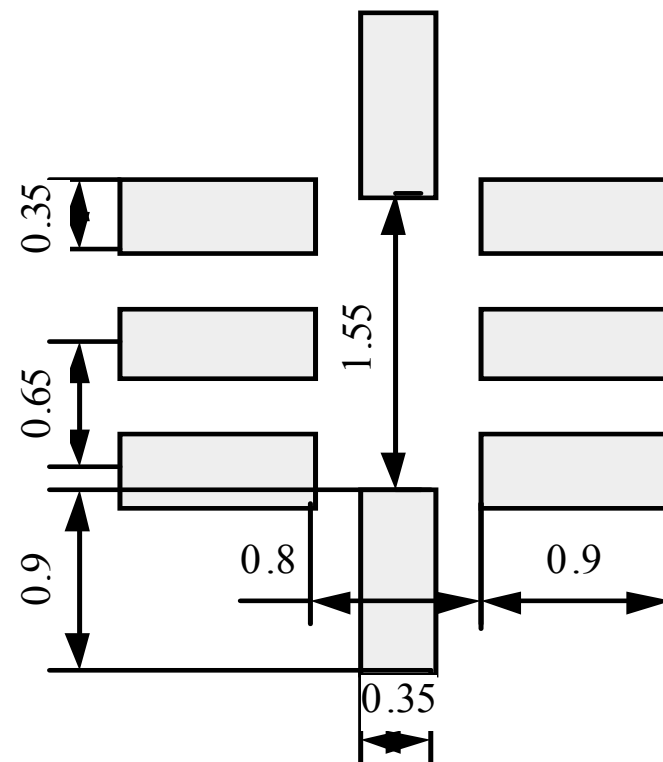
Mark	Dimension	Mark	Dimension
L	2.00 +/-0.15	b	0.20 +/-0.15
W	1.25 +/-0.15	c1	0.20 +/-0.15
T	0.90 +/-0.10	c2	0.20 +/-0.15
a1	0.30 +/-0.20	e	0.35 +/-0.20
a2	0.30 +/-0.20	p	0.65 +/-0.20

Terminl No.	Terminl Name
(1)	NC
(2)	NC
(3)	Unbalance Port
(4)	GND
(5)	Balance Port
(6)	GND
(7)	Balance Port
(8)	GND

Actual Data



■ PCB Layout Example



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