Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!

Contact us

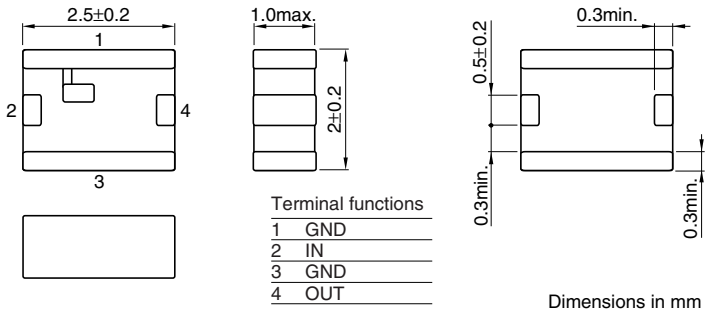
Tel: +86-755-8981 8866 Fax: +86-755-8427 6832
Email & Skype: info@chipsmall.com Web: www.chipsmall.com
Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China

Multilayer Chip Band Pass Filters For Bluetooth & 2.4GHz W-LAN

Conformity to RoHS Directive

DEA Series DEA252450BT-2109C3

SHAPES AND DIMENSIONS

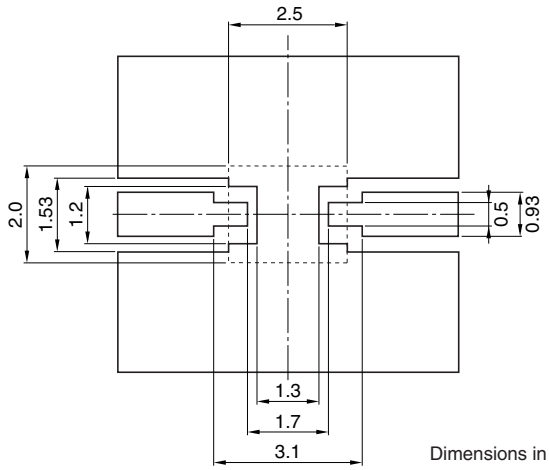


Terminal functions	
1	GND
2	IN
3	GND
4	OUT

Dimensions in mm

RECOMMENDED PC BOARD PATTERNS

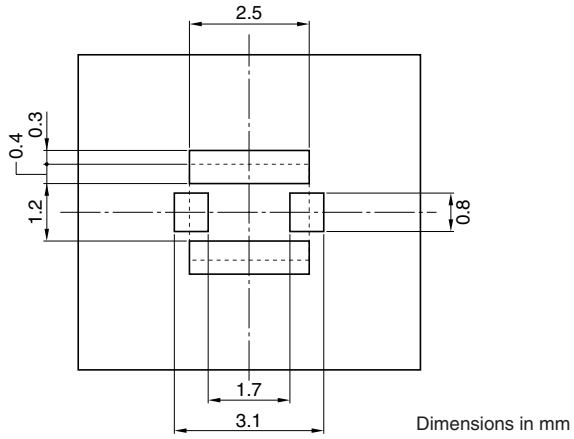
LAND



Dimensions in mm

Line width be designed to match 50Ω characteristic impedance, depending on PCB material and thickness.

SOLDER RESIST



Dimensions in mm

- Conformity to RoHS Directive: This means that, in conformity with EU Directive 2002/95/EC, lead, cadmium, mercury, hexavalent chromium, and specific bromine-based flame retardants, PBB and PBDE, have not been used, except for exempted applications.

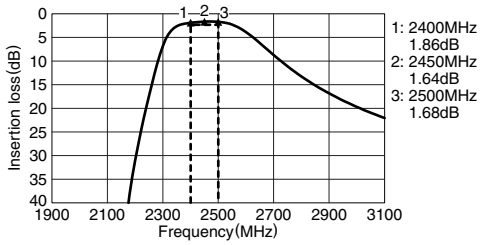
ELECTRICAL CHARACTERISTICS

Item			Minimum value	Typical value	Maximum value
Frequency range(Pass band)		(MHz)	2400	—	2500
Characteristic impedance(Pass band)		(Ω)	—	50[Nominal]	—
Insertion loss(Pass band)	[+25°C]	(dB)	—	—	2.3
	[−40 to +85°C]	(dB)	—	—	2.5
Return loss(Pass band)		(dB)	10	—	—
Attenuation	[DC to 76MHz]	(dB)	45	—	—
	[76 to 108MHz]	(dB)	45	—	—
	[480MHz]	(dB)	45	—	—
	[746 to 764MHz]	(dB)	45	—	—
	[776 to 794MHz]	(dB)	45	—	—
	[824 to 849MHz]	(dB)	45	—	—
	[869 to 880MHz]	(dB)	45	—	—
	[880 to 915MHz]	(dB)	45	—	—
	[925 to 960MHz]	(dB)	45	—	—
	[1570 to 1580MHz]	(dB)	43	—	—
	[1710 to 1785MHz]	(dB)	44	—	—
	[1805 to 1850MHz]	(dB)	40	—	—
	[1850 to 1910MHz]	(dB)	40	—	—
	[1920 to 1980MHz]	(dB)	38	—	—
	[1980 to 1990MHz]	(dB)	38	—	—
	[2110 to 2170MHz]	(dB)	30	—	—
	[2750 to 3000MHz]	(dB)	5	—	—
	[3000 to 4800MHz]	(dB)	15	—	—
	[4800 to 5000MHz]	(dB)	30	—	—
	[5150 to 5850MHz]	(dB)	30	—	—
	[7200 to 7500MHz]	(dB)	20	—	—
Temperature range	Operating	(°C)	−40	—	+85
	Storage	(°C)	−40	—	+85

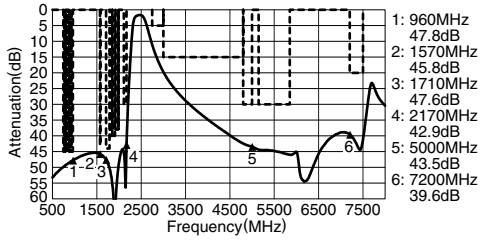
• Ta:+25°C

FREQUENCY CHARACTERISTICS

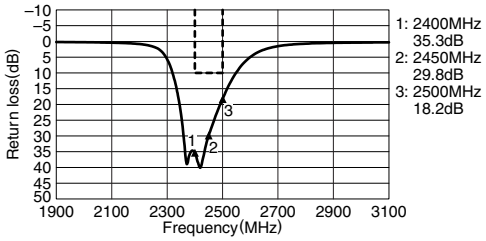
INSERTION LOSS



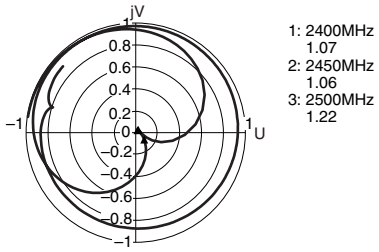
ATTENUATION



RETURN LOSS



VSWR



• All specifications are subject to change without notice.