

Multilayer Band Pass Filters

For 5.0GHz W-LAN

DEA Series

Type: DEA205425BT-1209B2 (2.0×1.25×0.9mm)

DEA205437BT-1200 (2.0×1.25×0.9mm) DEA205375BT-2054A1 (2.0×1.25×0.95mm) DEA205425BT-2028A4 (2.0×1.25×0.95mm)

Issue date: November 2010

[•] All specifications are subject to change without notice.

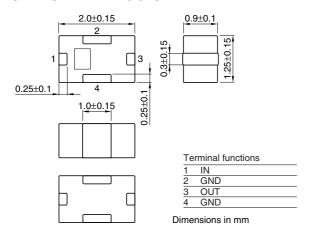
[•] Conformity to RoHS Directive: This means that, in conformity with EU Directive 2002/95/EC, lead, cadmium, mercury, hexavalent chromium, and specific bromine-based flame retardants, PBB and PBDE, have not been used, except for exempted applications.



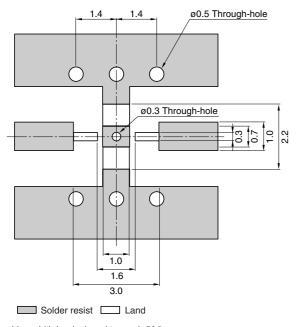
Conformity to RoHS Directive

DEA Series DEA205425BT-1209B2

SHAPES AND DIMENSIONS



RECOMMENDED PC BOARD PATTERNS



Line width be designed to mach 50Ω characteristic impedance depending on PCB material and thickness

Dimensions in mm

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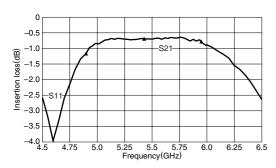


ELECTRICAL CHARACTERISTICS

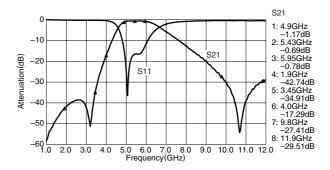
Item			Minimum value	Typical value	Maximum value
Center frequency	[5425MHz]		_	_	_
Insertion loss	[4900 to 5950MHz]	(dB)	_	1.1	1.5
Return loss	[4900 to 5950MHz]	(dB)	10	_	_
Attenuation	[500 to 1900MHz]	(dB)	35	41	_
	[2140 to 3300MHz]	(dB)	30	38	_
	[3450MHz]	(dB)	25	34	_
	[9800 to 11900MHz]	(dB)	17	25	_
Temperature range	Operating	(°C)	-40	_	+85
	Storage	(°C)	-40	_	+85

[•] Ta:+25°C

FREQUENCY CHARACTERISTICS INSERTION LOSS



ATTENUATION

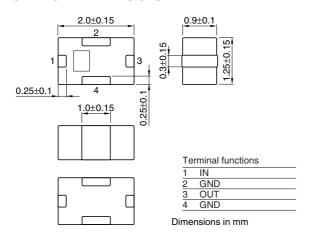




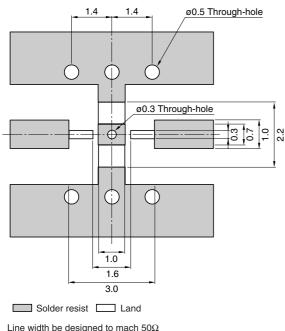
Conformity to RoHS Directive

DEA Series DEA205437BT-1200

SHAPES AND DIMENSIONS



RECOMMENDED PC BOARD PATTERNS



Line width be designed to mach 50Ω characteristic impedance depending on PCB material and thickness

Dimensions in mm

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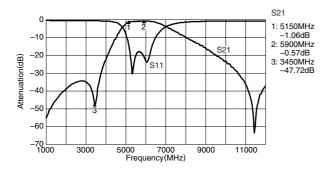


ELECTRICAL CHARACTERISTICS

Item			Minimum value	Typical value	Maximum value
Center frequency	[5525MHz]		_	_	_
Insertion loss	[5150 to 5900MHz]	(dB)	_	1.1	1.5
Return loss	[5150 to 5900MHz]	(dB)	10	_	_
Attenuation	[3450MHz]	(dB)	35	_	_
Temperature range	Operating	(°C)	-40	_	+85
	Storage	(°C)	-40	_	+85

[•] Ta:+25°C

FREQUENCY CHARACTERISTICS

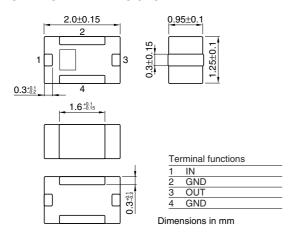




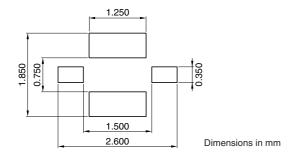
Conformity to RoHS Directive

DEA Series DEA205375BT-2054A1

SHAPES AND DIMENSIONS



RECOMMENDED PC BOARD PATTERNS



ELECTRICAL CHARACTERISTICS

			Minimum value	Typical value	Maximum value
[25°C]	[4900 to 5850MHz]	(dB)	_	_	2.2
[-40 to +85°C]	[4900 to 5850MHz]	(dB)	_	_	2.5
	[4900 to 5850MHz]		_	_	2.2
	[340 to 1195MHz]	(dB)	38.0	_	_
	[2140 to 3580MHz]	(dB)	19.0	_	_
	[6855 to 7150MHz]	(dB)	25.0	_	_
	[8570 to 8930MHz]	(dB)	20.0	_	_
	[4900 to 5850MHz]	(dB)	_	_	1.8
	Operating	(°C)	-40	_	+85
	Storage	(°C)	-40	_	+85
	-	[-40 to +85°C] [4900 to 5850MHz] [4900 to 5850MHz] [340 to 1195MHz] [2140 to 3580MHz] [6855 to 7150MHz] [8570 to 8930MHz] [4900 to 5850MHz] Operating	[-40 to +85°C] [4900 to 5850MHz] (dB) [4900 to 5850MHz] (dB) [340 to 1195MHz] (dB) [2140 to 3580MHz] (dB) [6855 to 7150MHz] (dB) [8570 to 8930MHz] (dB) [4900 to 5850MHz] (dB) Operating (°C)	[25°C] [4900 to 5850MHz] (dB) — [-40 to +85°C] [4900 to 5850MHz] (dB) — [4900 to 5850MHz] — [340 to 1195MHz] (dB) 38.0 [2140 to 3580MHz] (dB) 19.0 [6855 to 7150MHz] (dB) 25.0 [8570 to 8930MHz] (dB) 20.0 [4900 to 5850MHz] (dB) — Operating (°C) —40	[25°C] [4900 to 5850MHz] (dB) — — — — — — — — — — — — — — — — — — —

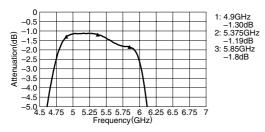
[•] Ta:+25°C

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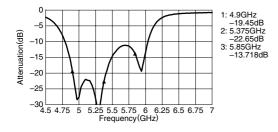
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ATDK

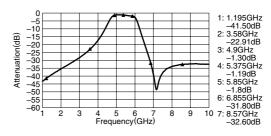
FREQUENCY CHARACTERISTICS INSERTION LOSS



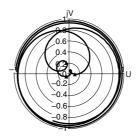
RETURN LOSS



ATTENUATION



VSWR

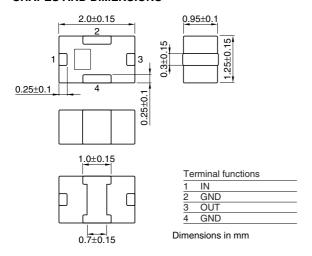




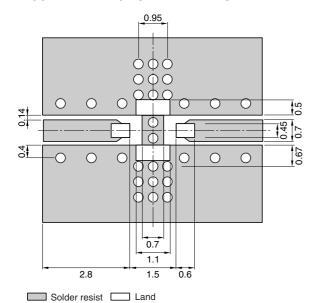
Conformity to RoHS Directive

DEA Series DEA205425BT-2028A4

SHAPES AND DIMENSIONS



RECOMMENDED PC BOARD PATTERNS



Line width be designed to mach 50Ω

characteristic impedance depending on PCB material and thickness

Dimensions in mm

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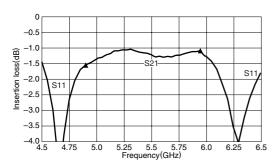


ELECTRICAL CHARACTERISTICS

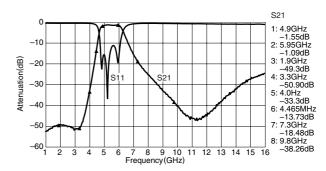
Item			Minimum value	Typical value	Maximum value
Center frequency	[5425MHz]		_	_	_
Insertion loss	[4900 to 5950MHz]	(dB)	_	1.6	2.0
Return loss	[4900 to 5950MHz]	(dB)	9	11	_
Attenuation	[1280 to 3300MHz]	(dB)	40	50	_
	[3300 to 4000MHz]	(dB)	25	33	_
	[4375 to 4465MHz]	(dB)	7	12	_
	[7300 to 8930MHz]	(dB)	14	18	_
	[9800 to 11900MHz]	(dB)	25	38	_
Temperature range	Operating	(°C)	-40	_	+85
	Storage	(°C)	-40	_	+85

[•] Ta:+25°C

FREQUENCY CHARACTERISTICS INSERTION LOSS



ATTENUATION



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Mouser Electronics

Authorized Distributor

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TDK:

DEA205425BT-2028A4 DEA205425BT-1209B2 DEA205437BT-1200