

Thin-film Band Pass Filters

For 2.4GHz W-LAN / Bluetooth

For 5.0GHz W-LAN

TFSB Series

Type: TFSB10052450-1101B2 (1.0×0.5×0.3mm)
TFSB10055375-1103A1 (1.0×0.5×0.3mm)

Issue date: August 2011

- 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.
-

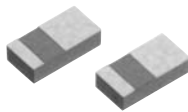
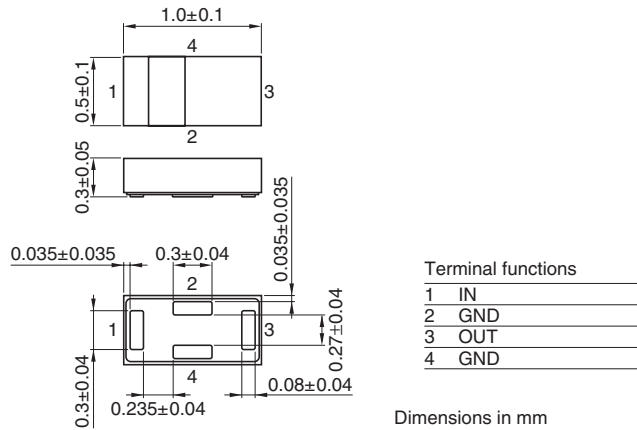
Thin-film Band Pass Filters

For 2.4GHz W-LAN / Bluetooth

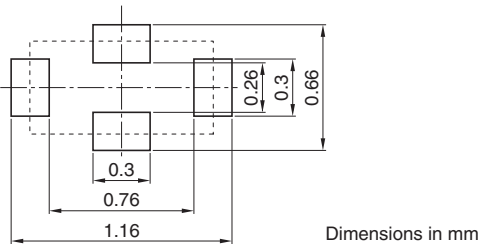
Conformity to RoHS Directive

TFSB Series TFSB10052450-1101B2

SHAPES AND DIMENSIONS



RECOMMENDED PC BOARD PATTERNS



ELECTRICAL CHARACTERISTICS

Item			Minimum value	Typical value	Maximum value
Insertion loss	[2400 to 2500MHz]	(dB)	—	2.5	3.0
Return loss	[2400 to 2500MHz]	(dB)	10	15.5	—
Attenuation	[1900MHz]	(dB)	30	34.3	—
	[4800 to 5000MHz]	(dB)	30	36.9	—
	[7200 to 7500MHz]	(dB)	22	25.2	—
Temperature range	Operating	(°C)	−40	—	+85
	Storage	(°C)	−40	—	+85

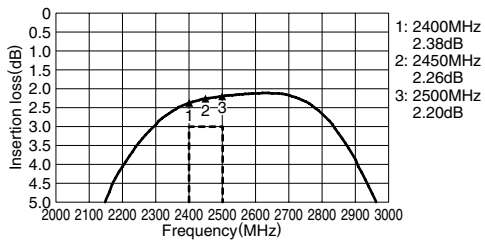
• Ta: +25°C

• 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.

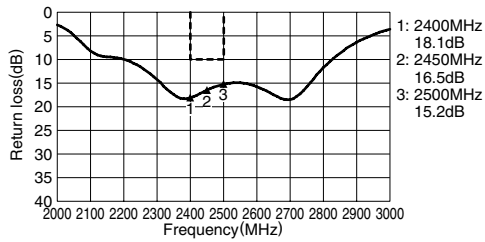
• All specifications are subject to change without notice.

FREQUENCY CHARACTERISTICS

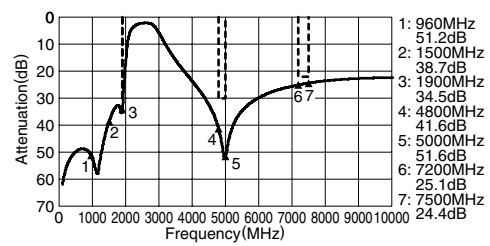
INSERTION LOSS S21



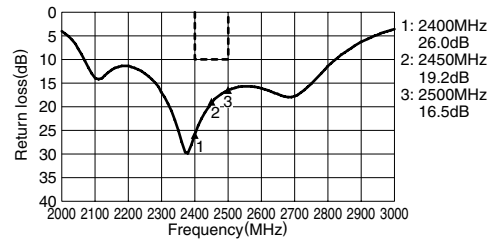
RETURN LOSS S11



ATTENUATION S21



RETURN LOSS S22



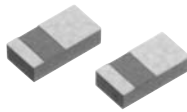
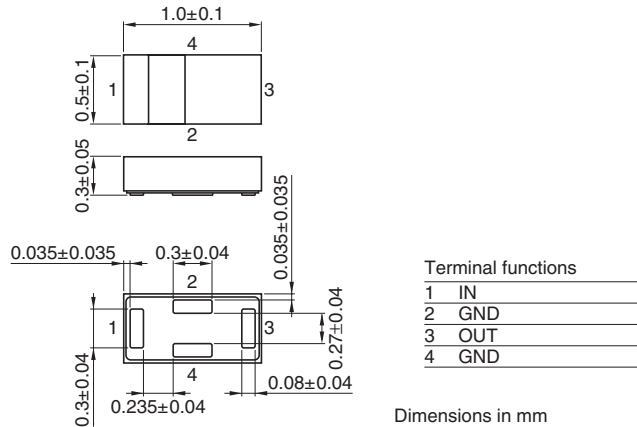
Thin-film Band Pass Filters

For 5.0GHz W-LAN

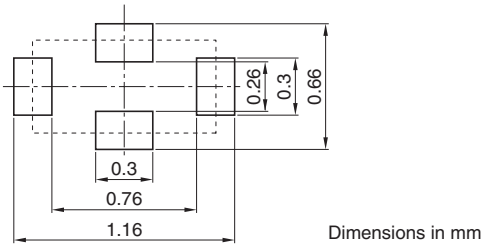
Conformity to RoHS Directive

TFSB Series TFSB10055375-1103A1

SHAPES AND DIMENSIONS



RECOMMENDED PC BOARD PATTERNS



ELECTRICAL CHARACTERISTICS

Item			Minimum value	Typical value	Maximum value
Insertion loss	[4900 to 5850MHz]	(dB)	—	0.9	1.5
Return loss	[4900 to 5850MHz]	(dB)	10	14.7	—
Attenuation	[824 to 1000MHz]	(dB)	40	47.3	—
	[1250 to 1500MHz]	(dB)	40	47.7	—
	[1750 to 1910MHz]	(dB)	40	54.4	—
	[9800 to 11700MHz]	(dB)	15	21.2	—
Temperature range	Operating	(°C)	−40	—	+85
	Storage	(°C)	−40	—	+85

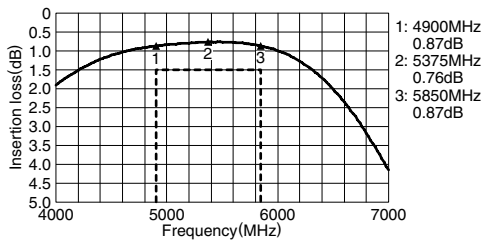
• Ta: +25°C

• 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.

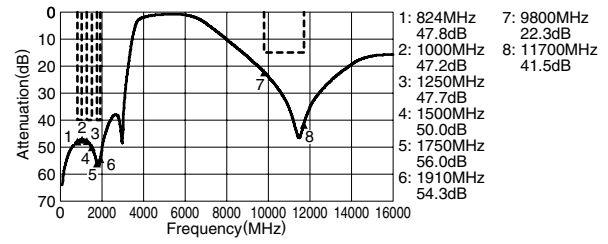
• All specifications are subject to change without notice.

FREQUENCY CHARACTERISTICS

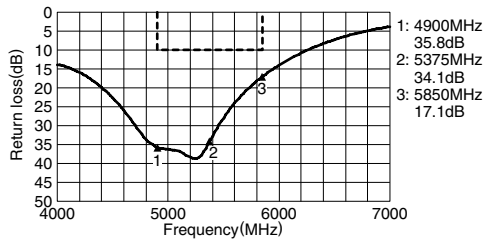
INSERTION LOSS S21



ATTENUATION S21



RETURN LOSS S11



RETURN LOSS S22

