

RF Components

Dielectric Filters

SMD

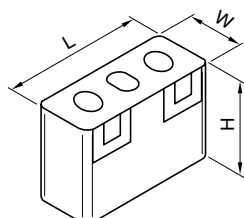
Wireless Lan

These products are high dielectric constant ceramic elements with a low dielectric loss in microwave frequency band and a temperature coefficient lower than the ppm level. With these microwave dielectric ceramics, we have been able to miniaturize our wireless LAN dielectric bandpass filters by significantly shortening their wavelengths.

FEATURES

- It incorporates TDK's unique microwave dielectric ceramic which provides a high dielectric constant, low dielectric loss in microwave band, and excellent.
- These products are provided in tape packaging for automatic mounting on SMDs.

SHAPES



ELECTRICAL CHARACTERISTICS

Part No.	Applications	Center frequency (MHz)	Bandwidth (MHz)	Insertion loss (dB)	Return loss (dB)	Attenuation (dB)	Dimensions(mm)
							L×W×H
CF61A4601	Wireless LAN	2450	100	1.0	10.0	40[1950MHz]	3.00×1.80×3.20
CF61A4301	Wireless LAN	5250	200	1.6		30[4120 to 4280MHz] 20[6180 to 6240MHz]	3.00×1.70×3.20
CF61A4401	Wireless LAN	5487.5	675	1.0		30[3700MHz]	3.00×1.70×2.80
CF61A4501	Wireless LAN	5487.5	675	2.0		25[4600MHz]	4.30×1.70×2.80

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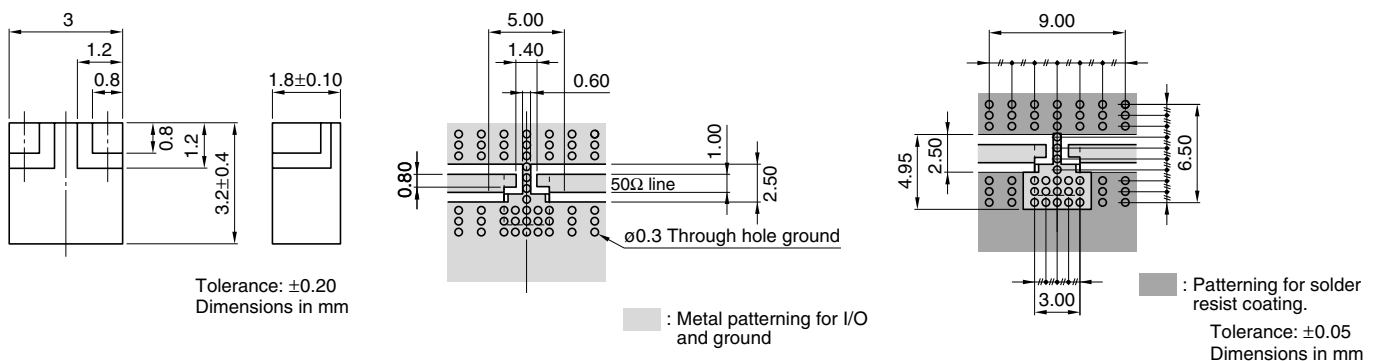
CF61A4601

2.4GHz-Wireless LAN

FEATURES

- Compact and lightweight, this high-performance two-pole dielectric bandpass filter for wireless LAN exhibits excellent spurious characteristics.
- It incorporates TDK's unique microwave dielectric ceramic, which provides a high dielectric constant, low dielectric loss in microwave band, and excellent temperature characteristics.
- These products are provided in tape packaging for automatic mounting on SMDs.

SHAPES AND DIMENSIONS/RECOMMENDED PCB LAYOUTS

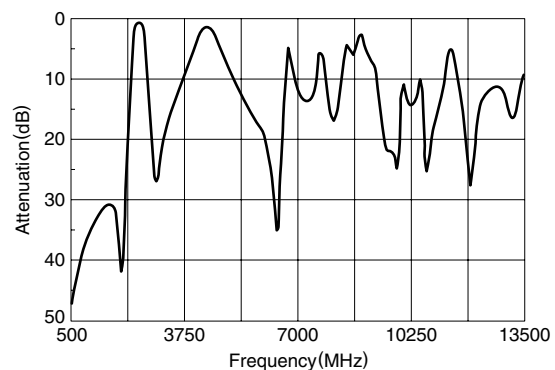
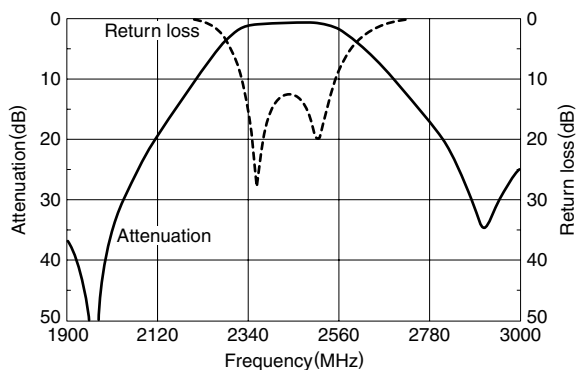


ELECTRICAL CHARACTERISTICS

Part No.	CF61A4601
Center frequency	2450MHz
Bandwidth	100MHz
Insertion loss	[at 25°C] 1.00dB max.
	[at -30 to +85°C] 1.20dB
Return loss	10.0dB min.
Attenuation	[1950MHz] 40.0dB min.

TYPICAL ELECTRICAL CHARACTERISTICS

FREQUENCY CHARACTERISTICS



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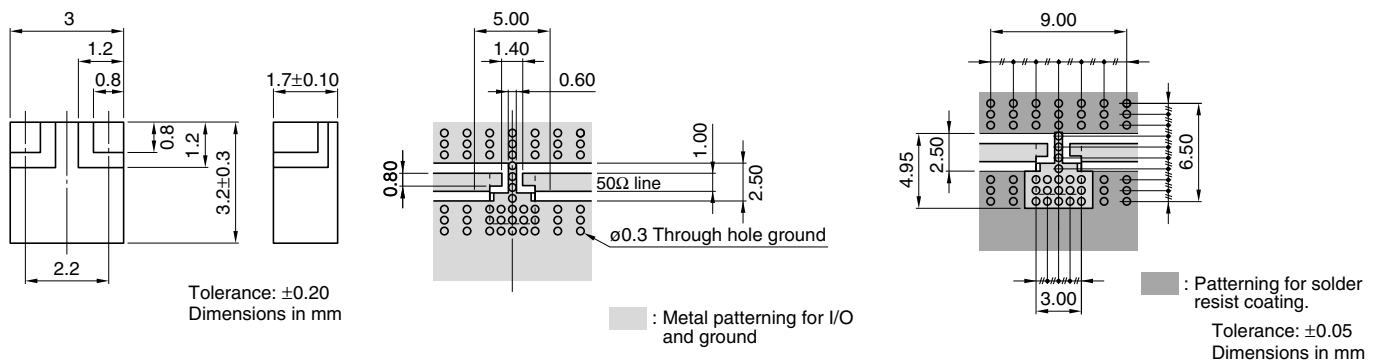
CF61A4301

5.2GHz-Wireless LAN

FEATURES

- Compact and lightweight, this high-performance two-pole dielectric bandpass filter for wireless LAN exhibits excellent spurious characteristics.
- It incorporates TDK's unique microwave dielectric ceramic, which provides a high dielectric constant, low dielectric loss in microwave band, and excellent temperature characteristics.
- These products are provided in tape packaging for automatic mounting on SMDs.

SHAPES AND DIMENSIONS/RECOMMENDED PCB LAYOUTS

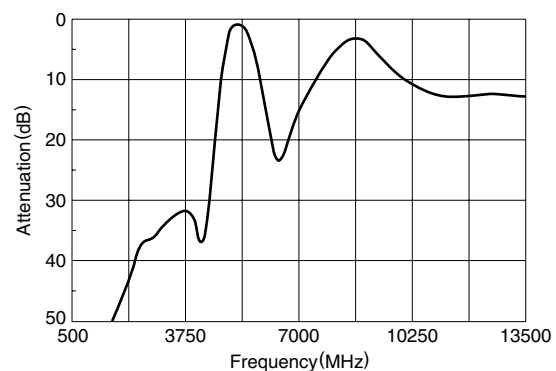
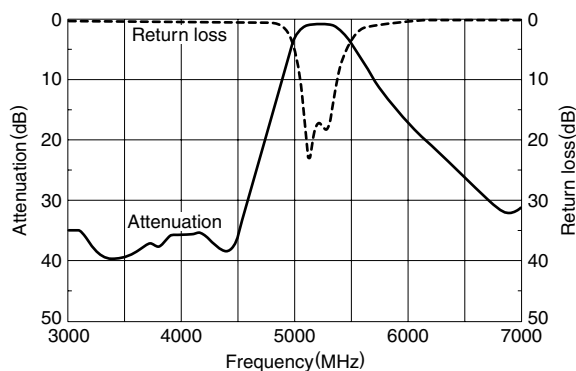


ELECTRICAL CHARACTERISTICS

Part No.	CF61A4301
Center frequency	5250MHz
Bandwidth	200MHz
Insertion loss	1.60dB max./0.88dB typ.
VSWR	9.54dB min./13.70dB typ.
Attenuation	[4120 to 4280MHz] 30dB min./36.8dB typ.
	[6180 to 6420MHz] 20dB min./21.1dB typ.
	[10.3 to 10.7GHz] 4dB min./5.2dB typ.
	[15.45 to 16.05GHz] 5dB min./10.0dB typ.

TYPICAL ELECTRICAL CHARACTERISTICS

FREQUENCY CHARACTERISTICS



RF Components

Dielectric Filters

SMD

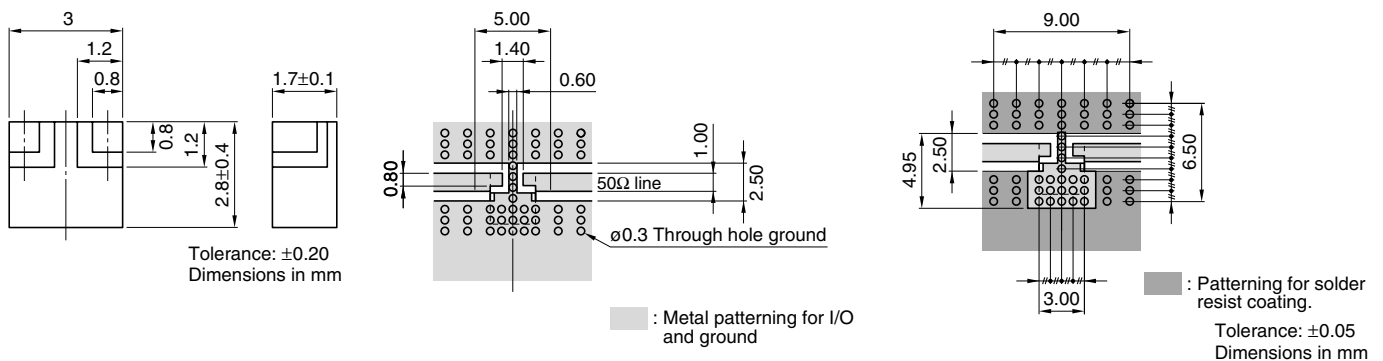
CF61A4401

5.5GHz-Wireless LAN

FEATURES

- Compact and lightweight, this high-performance two-pole dielectric bandpass filter for wireless LAN exhibits excellent spurious characteristics.
- It incorporates TDK's unique microwave dielectric ceramic, which provides a high dielectric constant, low dielectric loss in microwave band, and excellent temperature characteristics.
- These products are provided in tape packaging for automatic mounting on SMDs.

SHAPES AND DIMENSIONS/RECOMMENDED PCB LAYOUTS

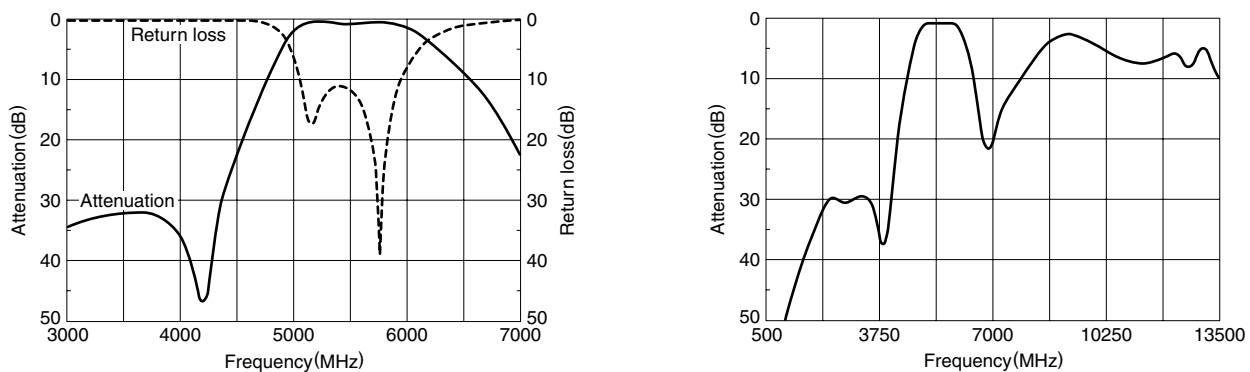


ELECTRICAL CHARACTERISTICS

Part No.	CF61A4401
Center frequency	5487.5MHz
Bandwidth	675MHz
Insertion loss	1.00dB max./0.79dB typ.
VSWR	1.80dB min./1.78dB typ.
Attenuation [3700MHz]	30dB min./32.2dB typ.

TYPICAL ELECTRICAL CHARACTERISTICS

FREQUENCY CHARACTERISTICS



RF Components

Dielectric Filters

SMD

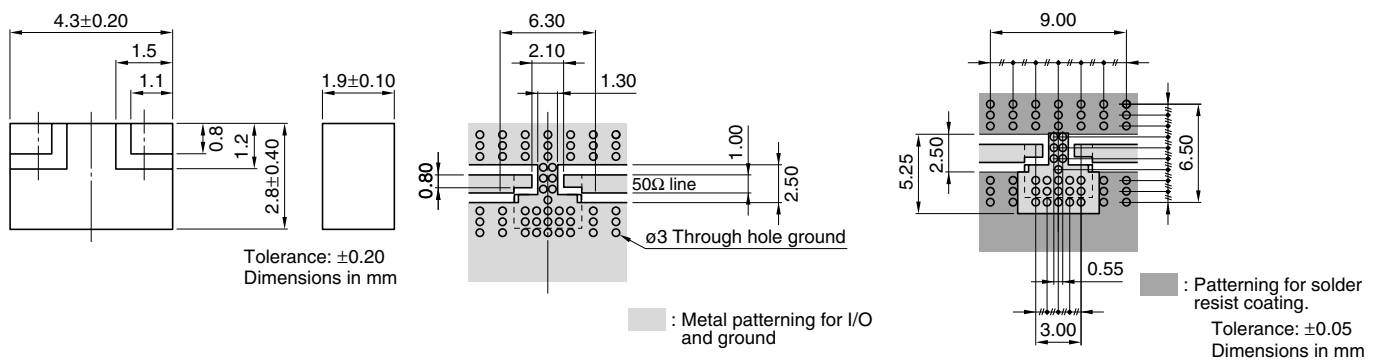
CF61A4501

5.5GHz-Wireless LAN

FEATURES

- Compact and lightweight, this high-performance three-pole dielectric bandpass filter for wireless LAN exhibits excellent spurious characteristics.
- It incorporates TDK's unique microwave dielectric ceramic, which provides a high dielectric constant, low dielectric loss in microwave band, and excellent temperature characteristics.
- These products are provided in tape packaging for automatic mounting on SMDs.

SHAPES AND DIMENSIONS/RECOMMENDED PCB LAYOUTS



ELECTRICAL CHARACTERISTICS

Part No.	CF61A4501
Center frequency	5487.5MHz
Bandwidth	675MHz
Insertion loss	2.00dB max./1.19dB typ.
VSWR	1.80dB min./1.50dB typ.
Attenuation [4600MHz]	25dB min./29.1dB typ.

TYPICAL ELECTRICAL CHARACTERISTICS

FREQUENCY CHARACTERISTICS

