

### Multilayer Planar Filters (SMD)

Series: **V**

Type: **AM** (2 Poles)  
**BM** (3 Poles)



#### Multilayer 1.9 GHz BPFs for digital cordless telephones

Multilayer Planar Filters, Series V are compact surface mounting devices and designed for such applications as personal handy phones (PHS) and European digital cordless telephones (DECT), featuring low insertion loss and large attenuation.

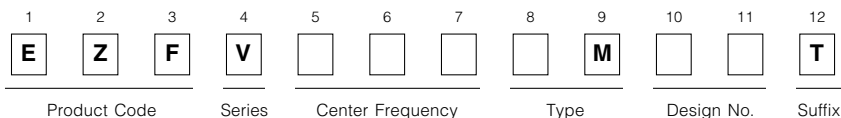
#### ■ Features

- Multilayer type band-pass filters with low temperature co-fired ceramic dielectrics
- High selectivity with "Resonant type coupling circuit" applied
- Ultra-miniature sized multilayer type SMD (3.2×2.5×1.8 mm)
- Low insertion loss: 1.5 to 2.5 dB (EZFK07 Type)

#### ■ Recommended Applications

- Digital cordless telephones (PHS, DECT)

#### ■ Explanation of Part Numbers



Type	AM	BM	Size	3□	4□	1□	2□
Pole of Number	2	3		3.2×2.5×1.8		4.5×3.2×2.0	

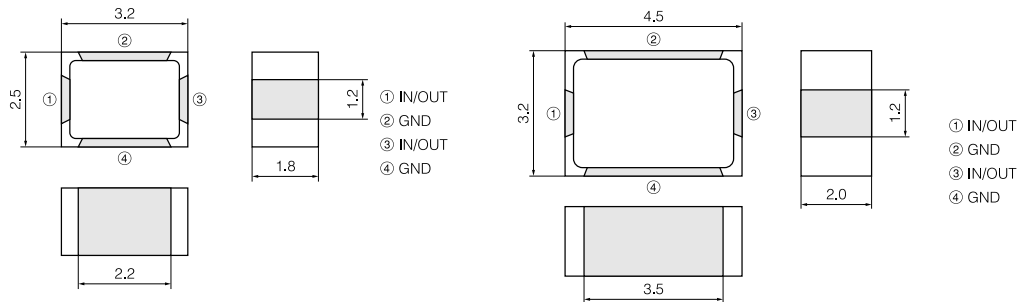
#### ■ Ratings

Item	Ratings
Operating Temperature Range	-25 to +85 °C
Storage Temperature Range	-40 to +85 °C
Rated Input Power	1 W
Input/Output Impedance	50 Ω

### ■ Characteristics

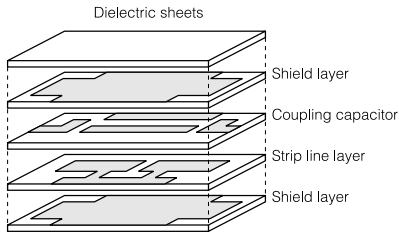
System	Part No.	Poles	Passband Width	Insertion Loss		VSWR	Attenuation
				5 to 35 °C	-25 to 85 °C		
PHS	EZFKV07AM3□T	2	1907±13 MHz	1.2 dB max.	1.5 dB max.	2.0 max.	40 dB min. (f <sub>o</sub> -468 MHz) 10 dB min. (f <sub>o</sub> -234 MHz)
	EZFKV07AM4□T	2	1907±13 MHz	2.0 dB max.	2.3 dB max.	2.0 max.	30 dB min. (f <sub>o</sub> -468 MHz) 30 dB min. (f <sub>o</sub> -234 MHz)
	EZFKV63AM3□T	2	1663±13 MHz	2.0 dB max.	2.3 dB max.	2.0 max.	22 dB min. (f <sub>o</sub> +234 MHz)
	EZFKV07AM1□T	2	1907±13 MHz	1.0 dB max.	1.3 dB max.	2.0 max.	40 dB min. (f <sub>o</sub> -468 MHz) 10 dB min. (f <sub>o</sub> -234 MHz)
	EZFKV07AM2□T	2	1907±13 MHz	2.0 dB max.	2.3 dB max.	2.0 max.	30 dB min. (f <sub>o</sub> -468 MHz) 30 dB min. (f <sub>o</sub> -234 MHz)
DECT	EZFKV90AM3□T	2	1890±10 MHz	2.0 dB max.	2.3 dB max.	2.0 max.	25 dB min. (f <sub>o</sub> -230 MHz)
	EZFKV90AM1□T	2	1890±10 MHz	1.0 dB max.	1.3 dB max.	2.0 max.	15 dB min. (1660~1680 MHz)
	EZFKV90AM2□T	2	1890±10 MHz	1.7 dB max.	2.0 dB max.	2.0 max.	35 dB min. (1660~1680 MHz) 10 dB min. (1770~1790 MHz)
PCN	EZFKV47AM1□T	2	1747.5±37.5 MHz	1.5 dB max.	1.8 dB max.	2.0 max.	35 dB min. (f <sub>o</sub> -480 MHz)
	EZFKV42AM1□T	2	1842.5±37.5 MHz				
	EZFKV47BM1□T	3	1747.5±37.5 MHz	2.5 dB max.	3.0 dB max.	2.2 max.	23 dB min. (f <sub>o</sub> ±240 MHz) 30 dB min. (f <sub>o</sub> ±480 MHz)
	EZFKV42BM1□T	3	1842.5±37.5 MHz				
	EZFKV47BM2□T	3	1747.5±37.5 MHz	3.0 dB max.	3.5 dB max.	2.2 max.	7 dB min. (f <sub>o</sub> ±120 MHz) 30 dB min. (f <sub>o</sub> ±480 MHz)
PCS	EZFKV60AM1□T	2	1960±30 MHz	1.5 dB max.	1.8 dB max.	2.0 max.	35 dB min. (f <sub>o</sub> -480 MHz)
	EZFKV80AM1□T	2	1880±30 MHz				
	EZFKV60BM1□T	3	1960±30 MHz	2.5 dB max.	3.0 dB max.	2.2 max.	23 dB min. (f <sub>o</sub> ±240 MHz) 30 dB min. (f <sub>o</sub> ±480 MHz)
	EZFKV80BM1□T	3	1880±30 MHz				
	EZFKV60BM2□T	3	1960±30 MHz	3.0 dB max.	3.5 dB max.	2.2 max.	7 dB min. (f <sub>o</sub> ±120 MHz) 30 dB min. (f <sub>o</sub> ±480 MHz)
	EZFKV80BM2□T	3	1880±30 MHz				

### ■ Dimensions in mm (not to scale)

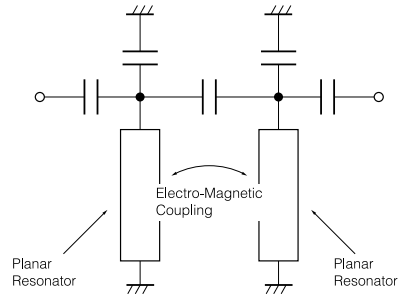


(Third angle projection)

## Construction



## Equivalent Circuit



## Typical Characteristics

### Attenuation/Insertion Loss vs. Frequency

