

Multilayer Planar Filters

Series: **V**

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



Featuring 1/40 volume of co-axial filters

Multilayer Planar Filters, Series V is compact SMD and developed for cellular telephones, data communication equipments, and digital cordless telephones, featuring low insertion loss and large attenuation.

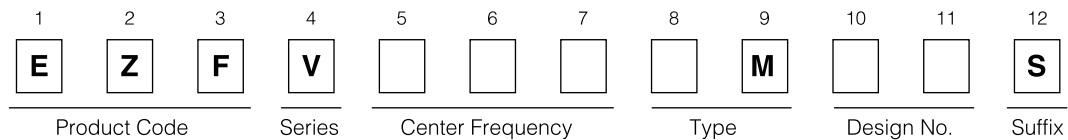
■ Features

- Multilayer type band-pass filters with low temperature co-fired ceramics (LTCC) dielectrics.
- High selectivity achieved by adopting 'Resonant type coupling circuit'
- Ultra-miniaturized type SMD (2.0 x 1.25 x 1.05 mm)

■ Recommended Applications

- Cellular telephones (W-CDMA, PCS, PCN)
- Data communication equipments (5GHz band W-LAN etc.)
- Cordless telephones

■ Explanation of Part Numbers



Type	AM	BM	Size	3□	5□	7□	9□
Number of poles	2	3		3.2×2.5	2.5×2.0	2.0×1.6	2.0×1.25

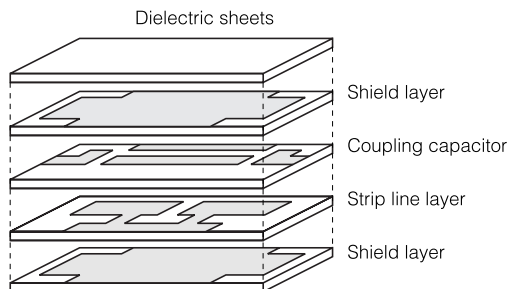
■ Ratings

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

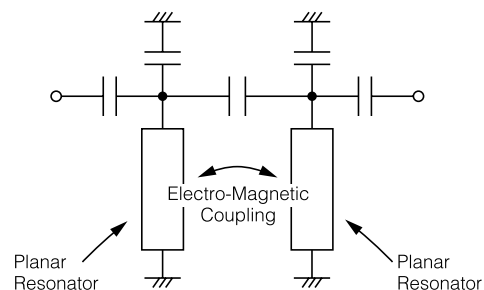
■ Characteristics

System	Part No.	Size	Poles	Pass-band Width	Insertion loss (at -25 °C)	Attenuation
Bluetooth	EZFVQ50BM50S	2.5×2.0×1.2	3	2450 MHz±50 MHz	2.4 dB max.	40 dB min. (DC-1600 MHz) 30 dB min. (2110-2170 MHz)
	EZFVQ50BM90S	2.0×1.25×1.0	3	2450 MHz±50 MHz	2.8 dB max.	40 dB min. (DC-1600 MHz) 30 dB min. (2110-2170 MHz)
2.4 GHz band W-LAN	EZFVQ50BM33S	3.2×2.5×1.2	3	2450 MHz±50 MHz	1.8 dB max.	50 dB min. (1500-1550 MHz) 12 dB min. (2150-2200 MHz)
	EZFVK50BM50S	2.5×2.0×1.2	3	2450 MHz±50 MHz	2.0 dB max.	40 dB min. (DC-1600 MHz) 30 dB min. (1920-1980 MHz)
	EZFVK50BM92S	2.0×1.25×1.0	3	2450 MHz±50 MHz	2.3 dB max.	40 dB min. (DC-1600 MHz) 30 dB min. (1920-1980 MHz)
5 GHz band W-LAN	EZFV550DM52S	2.5×2.0×1.2	4	5475 MHz±325 MHz	1.7 dB max.	30 dB min. (3000-4500 MHz) 30 dB min. (7200-7300 MHz)
	EZFV550AM92S	2.0×1.25×1.0	2	5475 MHz±325 MHz	1.2 dB max.	30 dB min. (4000 MHz) 8 dB min. (8000 MHz)
	EZFV525AM92S	2.0×1.25×1.0	2	5250 MHz±100 MHz	1.5 dB max.	5 dB min. (4580-4780 MHz) 35 dB min. (4010-4210 MHz)
	EZFV525BM92S	2.0×1.25×1.0	3	5250 MHz±100 MHz	2.2 dB max.	20 dB min. (4580-4780 MHz) 40 dB min. (4010-4210 MHz)
PHS	EZFVK07AM56S	2.5×2.0×1.2	2	1907 MHz±13 MHz	2.5 dB max.	15 dB min. (1629-1687 MHz) 35 dB min. (1374-1454 MHz)
	EZFVK07AM58S	2.5×2.0×1.2	2	1907 MHz±13 MHz	1.3 dB max.	30 dB min. (1629-1687 MHz) 30 dB min. (1374-1454 MHz)

Construction

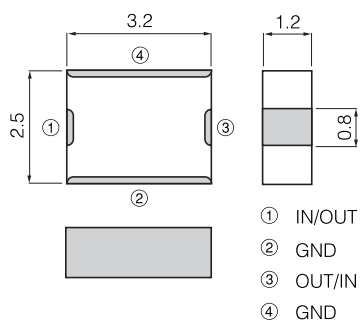


Equivalent Circuit

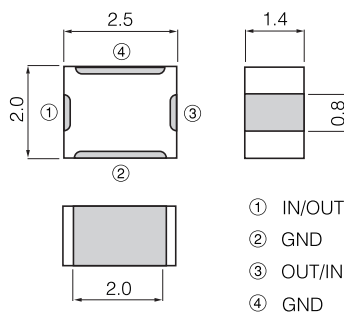


Dimensions in mm (not to scale)

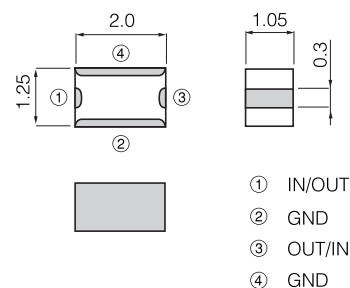
EZVQ50BM3□S



EZVK07AM5□S



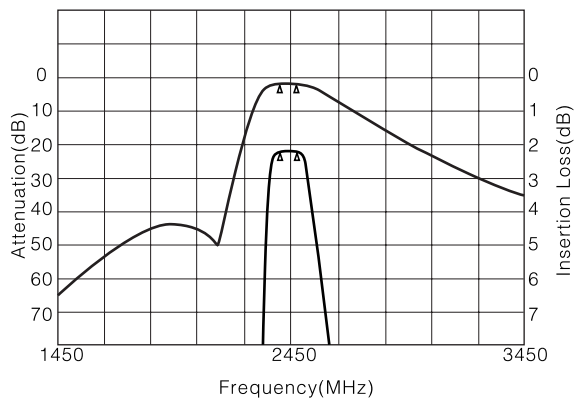
EZFV525AM9□S



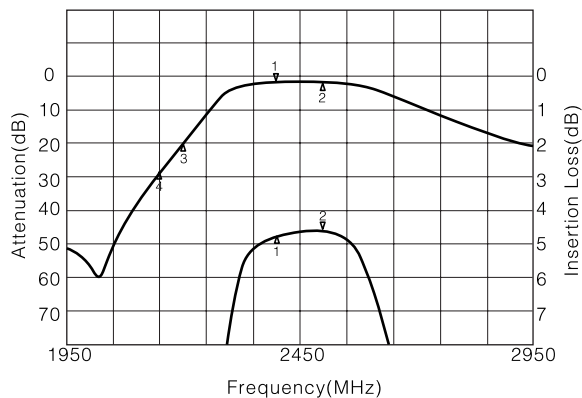
Typical Characteristics

Attenuation/Insertion Loss vs. Frequency

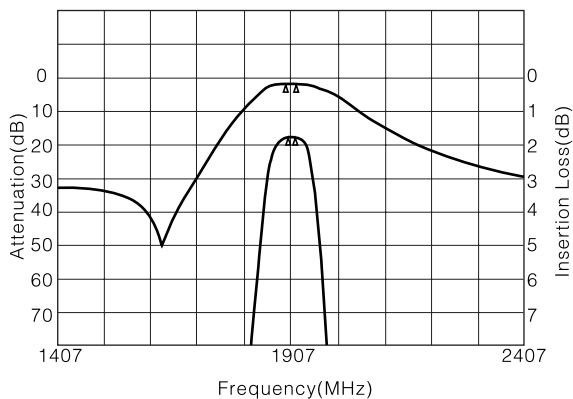
EZVQ50BM92S



EZVQ50AM33S



EZVK07AM56S



EZFV525AM92S

