FERRITE EMI DISKS AND PLATES

Ferrite Disks and Plates provide a simple, cost-effective solution for radiated and inductively-coupled electromagnetic interference. After the PC board soldering process, a ferrite disk or plate can be installed directly on the source of EMI (such as active devices or unwanted antennas).

Applications:

• Ferrite disks and plates can be utilized either as inductively-coupled components or EMI shields on PC board components and traces. (Inductive coupling occurs when the ferrite affects the conducted wave form leaving the active component. The rise time of the wave form is effectively slowed by the ferrite, and the overshoot and associated ringing are attenuated. EMI shielding occurs when the ferrite absorbs the radiated emissions from active components, effectively protecting other boards or components in the vicinity from radiated contamination).
• Can be used to locate unwanted EMI antennas.
• Flat Flex & Ribbon cables.
• Can also provide retrofit, auxiliary EMI attenuation.

Fig1

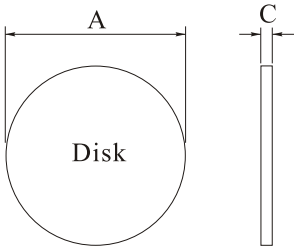
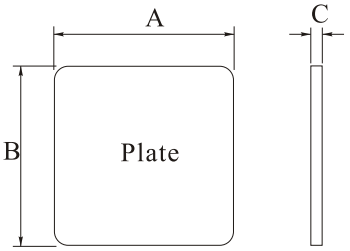
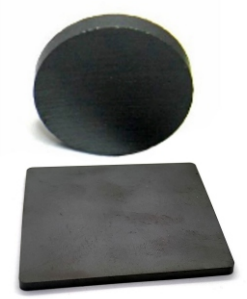


Fig2





Part No.	A(mm)	B(mm)	C(mm)	Fig
FHD20.0X1.27	19.99		1.27	1
FHD20.0X1.91	19.99		1.91	1
FHD35.56X1.91	35.56		1.91	1
FHD35.56X2.54	35.56		2.54	1
FMD16.51X1.27	16.51		1.27	1
FMD20.0X1.27	20.0		1.27	1
FMD20.0X1.91	20.0		1.91	1
FMD35.56X1.91	35.56		1.91	1
FMD35.56X2.54	35.56		2.54	1
FHP26.42X26.42X1.27	26.42	26.42	1.27	2
FHP26.42X26.42X1.91	26.42	26.42	1.91	2
FMP8.0X8.0X2.0	8.0	8.0	2.0	2
FMP26.42X8.89X1.27	26.42	8.89	1.27	2
FMP11.0X11.0X1.96	11.0	11.0	1.96	2
FMP13.0X13.0X2.0	13.0	13.0	2.0	2
FMP21.0X15.0X2.0	21.0	15.0	2.0	2
FMP15.0X15.0X2.0	15.0	15.0	2.0	2
FMP19.3X19.3X1.27	19.3	19.3	1.27	2
FMP26.42X26.42X1.27	26.42	26.42	1.27	2
FMP26.42X26.42X1.91	26.42	26.42	1.91	2
FMP26.42X26.42X2.25	26.42	26.42	2.25	2
FMP38.0X38.0X2.0	38.0	38.0	2.0	2

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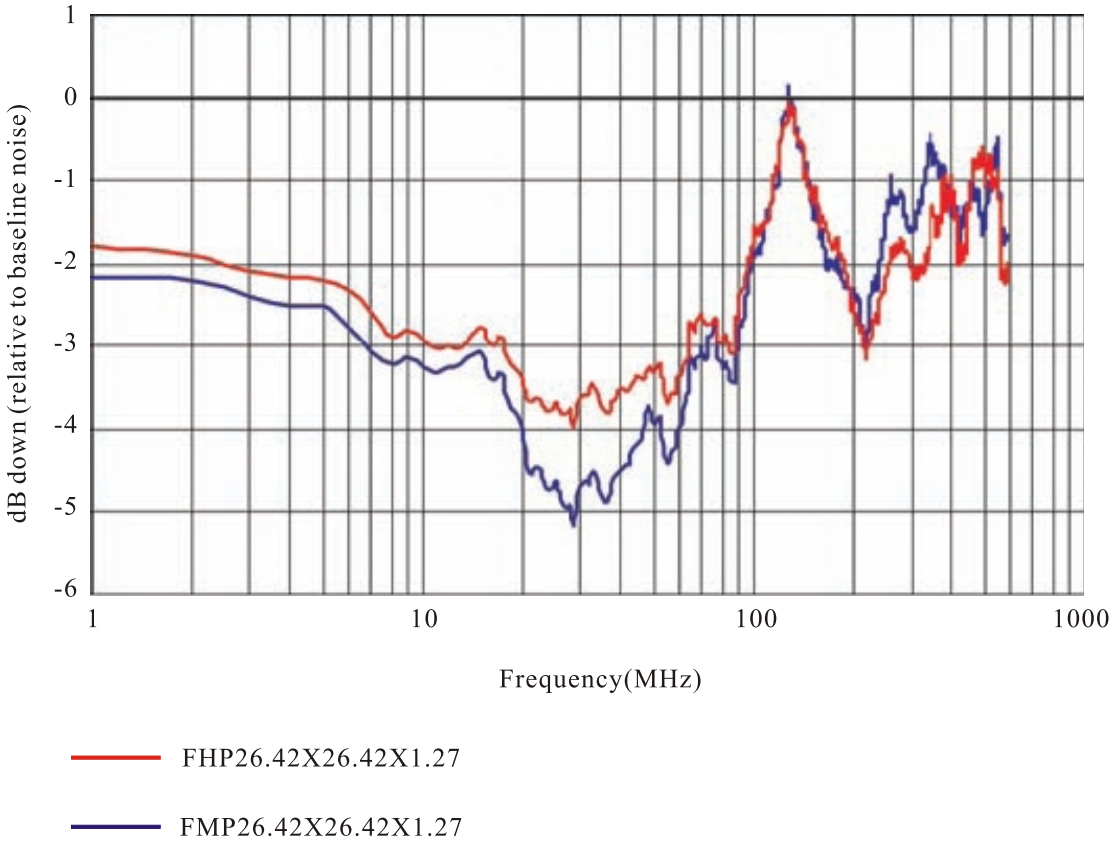
FERRITE EMI DISKS AND PLATES



Example Application Graph Explanation:

The zero line on the graph represents the base line noise recorded for an unprotected microprocessor. The curves (dB down) represent the performance of the Shinhom' ferrite plates relative to the baseline. The addition of the ferrite plates to the top of the processor in this specific application exhibits up to a 5 dB EMI reduction relative to the unprotected part. In the example application graph above, the ferrite plate FMP1040-100 exhibits up to a 1 dB advantage over the FHP1040-100 from 1-100 MHz, while the FHP1040-100 exhibits a 0.5 dB advantage between 200 and 400 MHz. Performance can vary with different sizes, materials, processors and applications.

F TYPE ABSORBER CORES & FBP TYPE CORES

F TYPE ABSORBER CORES
(MATERIALS): R2KF
Dimensions & Effective parameter

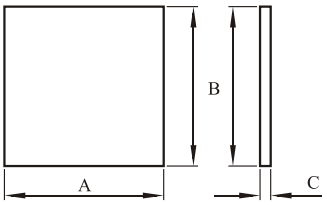


Fig1

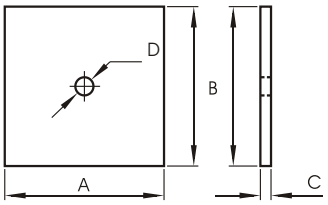


Fig2

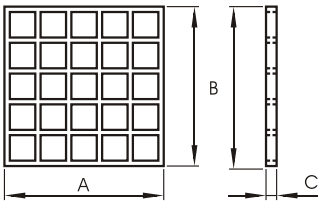
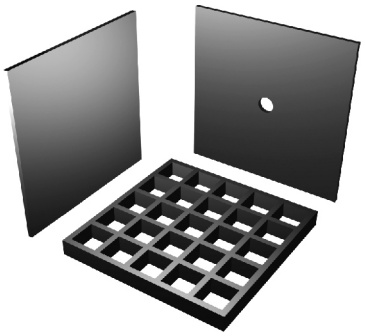


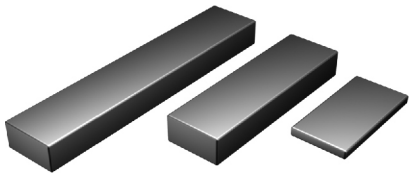
Fig3

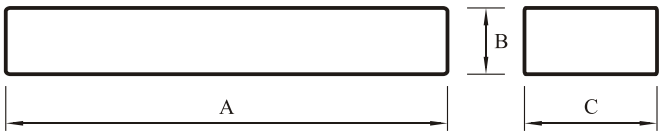
ABSORBERS

CORES TYPE	Dimensions(mm)					
	A	B	C	D	Weight (set/g)	Fig
F100×100×6.7	100±0.3	100±0.3	6.7±0.3		330	1
F100×100×6.7H	100±0.3	100±0.3	6.7±0.3	10±0.1	315	2
F101×101×19.0	101±0.3	101±0.3	19.0±0.3		242	3
F110×110×6.0	100±0.3	100±0.3	6.0±0.3		300	1
F113×112×6.0	113±1.0	112±1.0	6.0±0.4		380	1



FBP TYPE CORES
(MATERIALS): R2KF, P2, P3
Dimensions & Effective parameter





CORES TYPE	Dimensions(mm)			Weight (g)
	A	B	C	
FBP-150×25×25	150.0±0.3	25.0±0.2	25.0±0.2	440
FBP-150×15×30	150.0±0.3	15.0±0.2	30.0±0.2	317
FBP-110×15×35	110.0±0.3	15.0±0.2	30.0±0.2	232
FBP-100×15×30	100.0±0.3	15.0±0.2	30.0±0.2	211
FBP-60×30×5	60.0±1.5	30.75±0.75	5.0±1.5	42
FBP-60×30×6.5	60.0±1.5	30.75±0.75	6.75±0.25	55
FBP-60×30×5.75	60.0±1.5	30.75±0.75	6.75±0.25	49
FBP-60×15×4.6	60.0±1.5	15.0±0.3	4.6±0.3	20
FBP-60×15×4.9	60.0±1.5	15.0±0.3	4.9±0.3	21

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