Chassis Mount Filters - Motor Drive Filters FA series

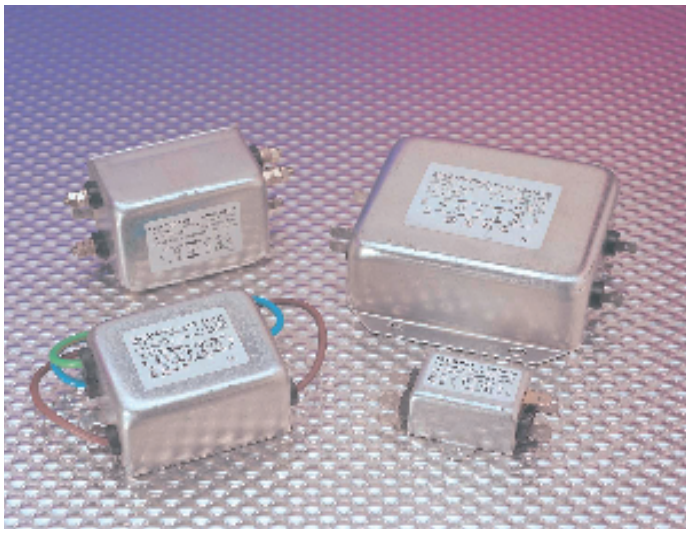
Single phase - general purpose

Comprehensive family of single and multi-stage chassis mount filters. Throughout the power range, a high level of performance is provided within various sizes and styles of metal enclosure and termination options.

Designed to provide economic solutions to a multitude of general purpose filtering requirements; industrial power equipment, office, business and medical equipments.

The two stage FAS series is specifically designed to suppress RFI generated by switch mode power supply applications.

- Current ratings from 0.5A to 40A
- High symmetric and asymetric attenuation
- Earth line choke and medical versions available
- Custom designs to client specifications



Mechanical Specifications

Manufacture: metal case and cover, internal components sealed with self-extinguishing resin.

Connections: faston 6.3 x 0.8mm (≤ 16A), flexible leads, screws M4 (≤ 40A) ground terminal connected to case.

Electrical Specifications

Rated voltage (V_R): max 250V, 50/60Hz

Rated current (I_R): referred to room temperature = 40°C

Leakage current (I_L): at 220V, 50Hz, max value

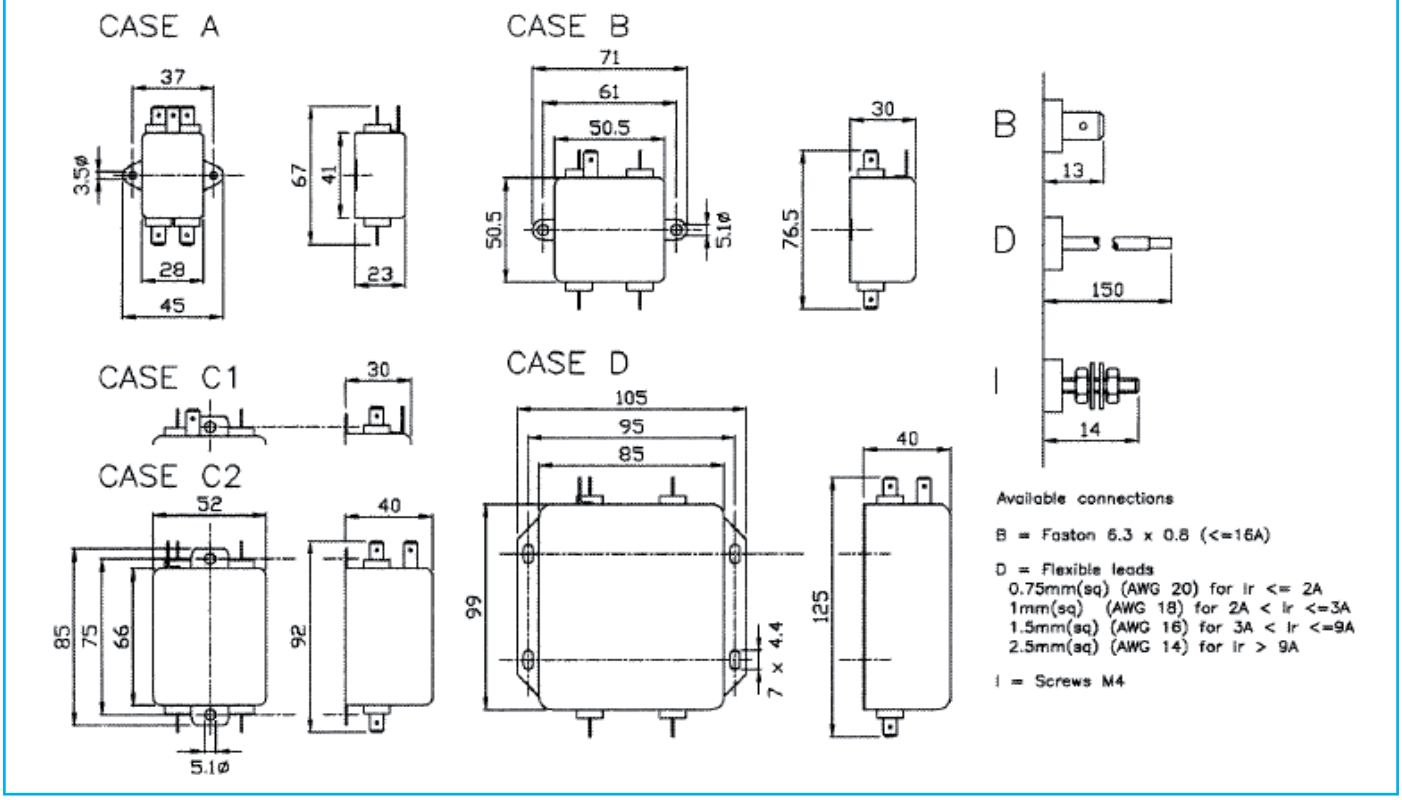
Voltage test (2 s.): line to ground 3000Vdc or 1800Vac

line to line 1700Vdc

Climatic category: HPF (25/085/21);

Temperature range: -25°C to +85°C

Dimensions (mm)



Approvals

60939-2 | in progress | 1283 | 22.2 N°8

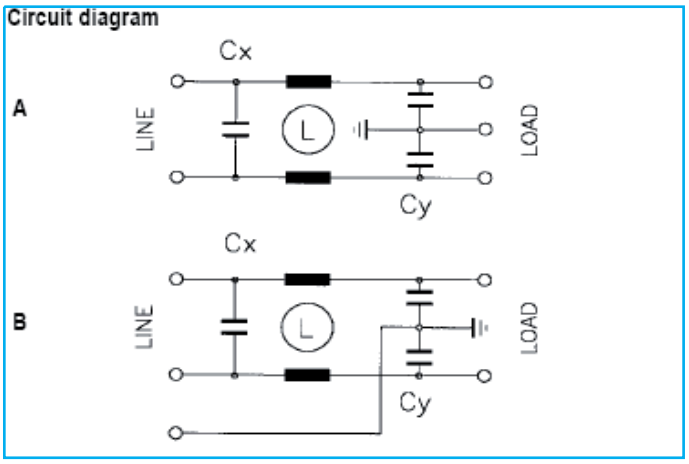
Filter Range

FAI Code	I_R (A)	L (mH)	Cx (µF)	Cy (pF)	I_L (mA)	R (MΩ)	Circ Diag	Case
FAIDB2150ZA	1.5	2x10	0.015	2x2200	2x0.2		A	A
FAIDB2150ZB	1	2x10	0.015	2x2200	2x0.2		A	A
FAIDB2150ZC	3	2x2	0.015	2x2200	2x0.2		A	A
FAIDB2150ZD	6.5	2x1	0.015	2x2200	2x0.2		A	A
FAID-2330ZA	10	2x0.5	0.033	2x2200	2x0.2	1	B	B
FAID-2330ZB	20	2x0.5	0.033	2x2200	2x0.2	1	B	B
FAID-2330ZC	30	2x0.6	0.033	2x2200	2x0.2	1	B	D
FAID-3100ZA	5	2x1	0.1	2x3200	2x0.29	1	B	B
FAID-3100ZB	5	2x1.7	0.1	2x3200	2x0.29	1	B	B

B = Faston 6.3x0.8mm
D = Flexible leads
I = Screw M4

* other variants on request

Circuit diagram



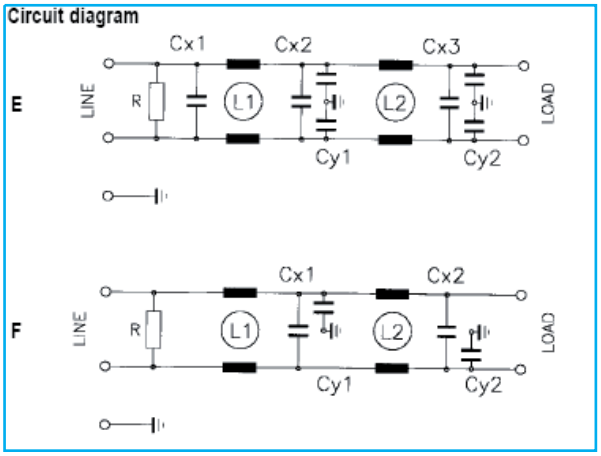
	FAK Code	I_R (A)	L_1 (mH)	L_2 (mH)	Cx_1 (µF)	Cx_2 (µF)	Cx_3 (µF)	Cy_1 (pF)	Cy_2 (pF)	I_L (mA)	R (MΩ)	Circ Diag	Case
	FAKD-3300ZA	3	2x2	2x2	0.15	0.15		2x2200		2x0.2	1	E	C1
	FAKD-3300ZB	6	2x1	2x1	0.15	0.15		2x2200		2x0.2	1	E	C1
	FAKD-3300ZC	10	2x0.5	2x0.5	0.15	0.15		2x2200		2x0.2	1	E	C2
	FAKD-3300ZD	20	2x0.5	2x0.5	0.15	0.15		2x2200		2x0.2	1	E	D
	FAKD-3570ZA	2.5	2x1	2x25		0.47	0.1	2x3300	2x3300	2x0.6	0.68	E	D
	FAKD-3810ZA	10	2x2.3	2x2.3	0.27	0.27	0.27	2x5500	2x1000	2x0.6	0.33	E	D
■	FAKD-3940ZA	3	2x4.7	2x4.7	0.47	0.47		2x4700		2x0.5	0.24	F	C2

B = Faston 6.3x0.8mm
D = Flexible leads
I = Screw M4

VDE 60939-2
■ UL approval only

* other variants on request

Circuit diagram



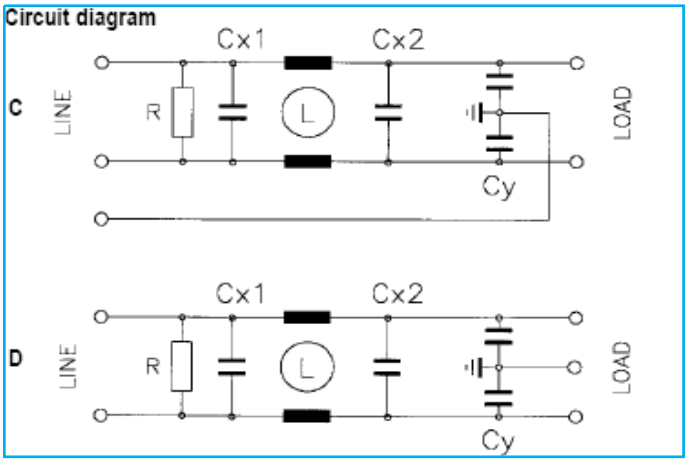
	FAM Code	I_R (A)	L (mH)	Cx_1 (µF)	Cx_2 (µF)	Cy (pF)	I_L (mA)	R (MΩ)	Circ Diag	Case
	FAMD-3200ZA	1	2x40	0.1	0.1	2x4700	2x0.43	0.68	C	B
	FAMD-3200ZB	5	2x1	0.1	0.1	2x3200	2x0.29	0.68	C	B
	FAMD-3200ZC	10	2x0.5	0.1	0.1	2x2200	2x0.20	0.68	C	B
	FAMD-3200ZD	20	2x0.5	0.1	0.1	2x2200	2x0.20	0.68	C	C2
	FAMD-3200ZE	30	2x0.6	0.1	0.1	2x2200	2x0.20	0.68	C	D
▲	FAMD-3440ZA	10	2x1	0.22	0.22	2x4700	2x0.43	0.47	D	B
	FAMD-3470ZA	6.5	2x4		0.47	2x1000	2x0.09	0.68	C	C2
	FAMD-3600ZC	16	2x1		0.6	2x2500	2x0.23	0.47	C	C2
	FAMD-3600ZD	22	2x0.2		0.6	2x2500	2x0.23	0.47	C	C2
▲	FAMD-3600ZE	20	2x1		0.6	2x4700	2x0.43	0.47	D	C2
▲	FAMD-3600ZF	40	2x0.23		0.6	2x4700	2x0.43	0.47	D	C2
▲	FAMD-3600ZH	30	2x0.23		0.6	2x4700	2x0.43	0.47	D	C2
▲	FAMD-3600ZK	25	2x0.5	0.6		2x4700	2x0.43	0.47	D	C2
▲	FAMD-3600ZL	25	2x0.5	0.6		2x22000	2x2.0	0.47	D	C2
	FAMD-3940ZA	4.5	2x20	0.47	0.47	2x10000	2x0.91	0.33	C	C2
	FAMD-3940ZB	3.3	2x13	0.47	0.47	2x6800	2x0.62	0.33	C	C2
■	FAMD-4100ZB	16	2x0.5		1.0	2x2500	2x0.23	0.33	D	C2
▲	FAMD-4160ZA	25	2x0.5	1.0	0.68	2x22000	2x2.0	0.47	C	C2

B = Faston 6.3x0.8mm
D = Flexible leads
I = Screw M4

▲ VDE 60939-2 only
■ UL approval only

* other variants on request

Circuit diagram



The Capacitance Company
KEMET
CHARGED.

Filter Range

	FAR Code	I_R (A)	L_1 (mH)	L_2 (mH)	Cx_1 (µF)	Cx_2 (µF)	Cy_1 (pF)	Cy_2 (pF)	I_L (mA)	R (MΩ)	Circ Diag	Case
	FARD-3620ZA	1.5	2x7	2x7	0.47	0.15		2x2200	2x0.2	0.47	G	C2
	FARD-3620ZB	2.5	2x12	2x2	0.47	0.15		2x2200	2x0.2	0.47	G	C2
	FARD-3620ZC	5	2x7	2x7	0.47	0.15		2x2200	2x0.2	0.47	G	C2
	FARD-3620ZD	8.5	2x10	2x3	0.47	0.15		2x2200	2x0.2	0.47	G	D
▲	FARD-3940ZA	0.5	2x40	2x40	0.47	0.47	2x3300		2x0.3	0.33	G	C1

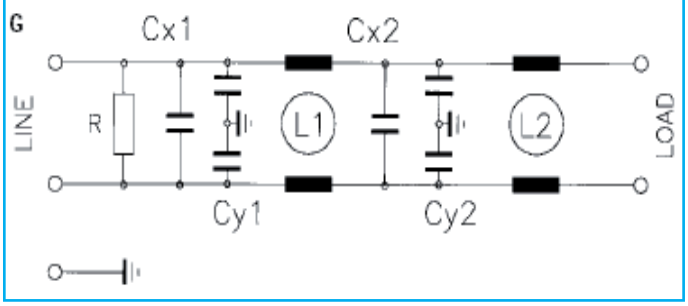
B = Faston 6.3x0.8mm
D = Flexible leads
I = Screw M4

▲ VDE 60939-2 only

* other variants on request

Circuit diagram

G



	FAS Code	I_R (A)	L_1 (mH)	L_2 (mH)	Cx_1 (µF)	Cy (pF)	I_L (mA)	R (MΩ)	Circ Diag	Case
	FASD-3220ZA	1	2x22	2x0.3	0.22	2x4700	2x0.43	1	H	B
	FASD-3220ZB	2.5	2x16	2x0.3	0.22	2x4700	2x0.43	1	H	C2
	FASD-3470ZA	6.5	2x4	2x0.05	0.47	2x22000	2x2	0.47	H	D
	FASD-3470ZB	10	2x4	2x0.05	0.47	2x22000	2x2	0.47	H	D
	FASD-3940ZA	4	2x8	2x0.05	0.94	2x22000	2x2	0.33	H	C2
▲	FASD-3940ZC	10	2x4	2x0.05	2x0.47	2x22000	2x2	0.33	H	D

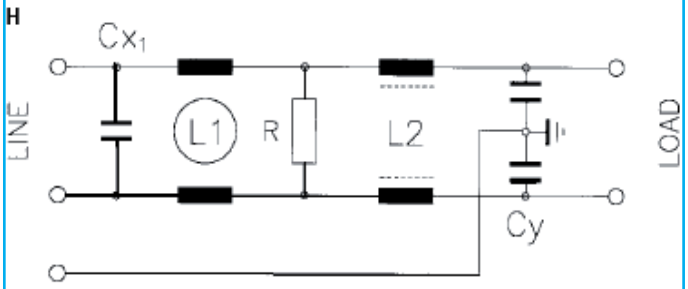
B = Faston 6.3x0.8mm
D = Flexible leads
I = Screw M4

▲ VDE 60939-2 only

* other variants on request

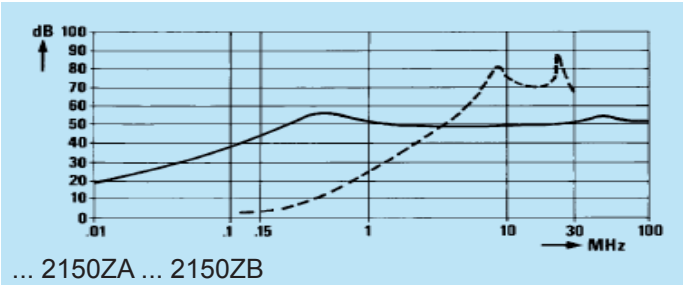
Circuit diagram

H

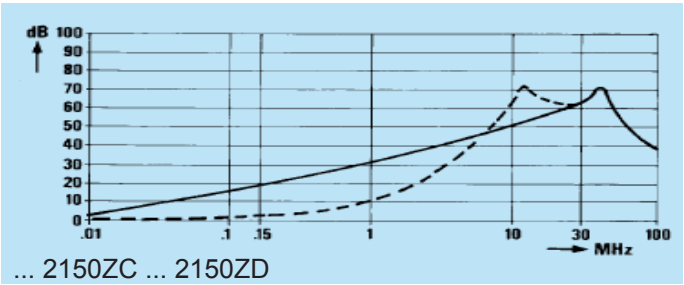


Insertion loss (typical): **Asymmetrical (line to ground)** **- - - Symmetrical (line to line)**

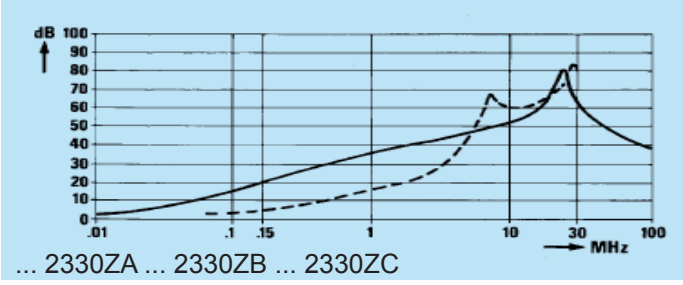
FAI



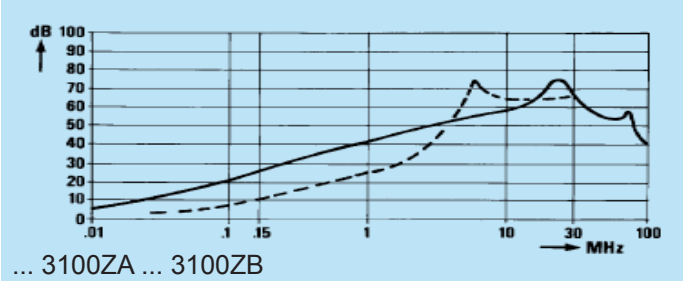
... 2150ZA ... 2150ZB



... 2150ZC ... 2150ZD



... 2330ZA ... 2330ZB ... 2330ZC



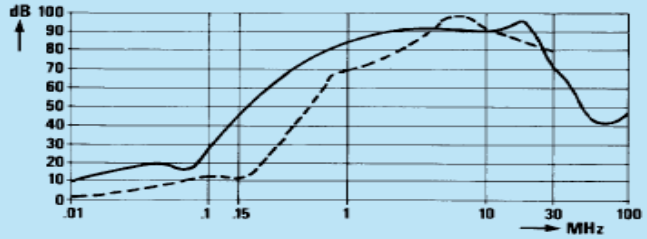
... 3100ZA ... 3100ZB

Approvals

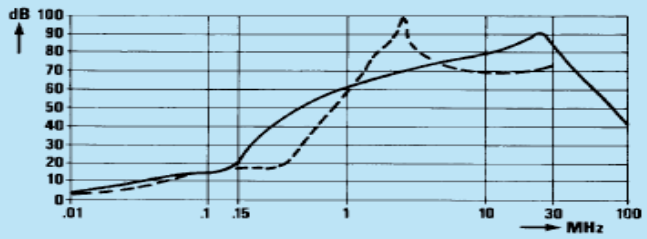
60939-2 | in progress | 1283 | 22.2 N°8

Insertion loss (typical): —— Asymmetrical (line to ground) - - - Symmetrical (line to line)

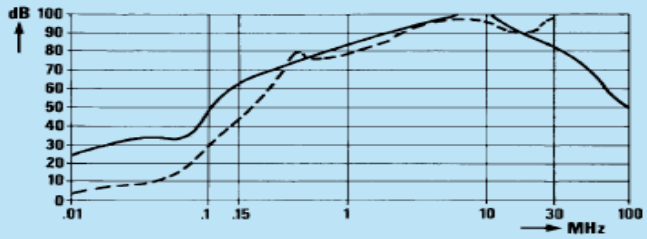
FAK



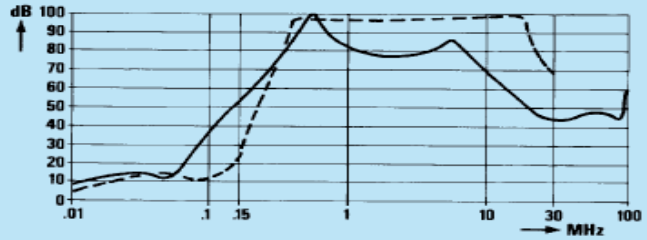
... 3300ZA ... 3300ZB



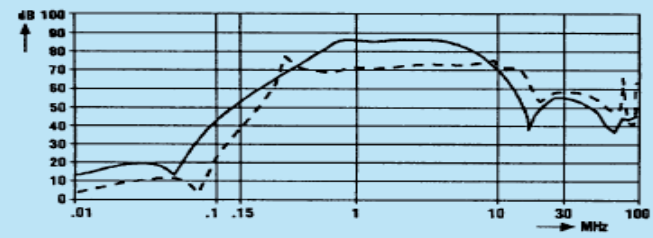
... 3300ZC ...3300ZD



... 3570ZA



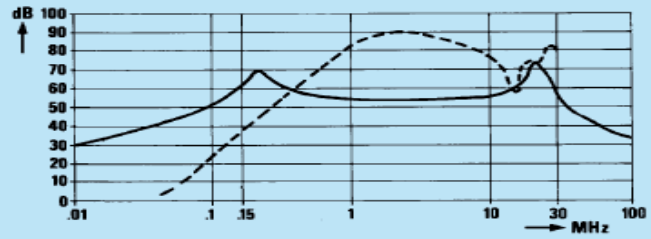
... 3810ZA



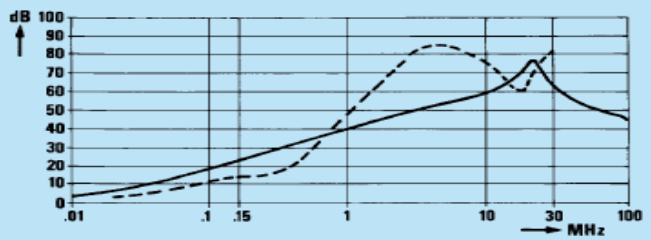
... 3940ZA

Insertion loss (typical): —— Asymmetrical (line to ground) - - - Symmetrical (line to line)

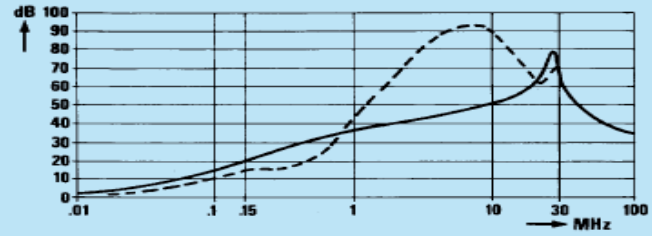
FAM



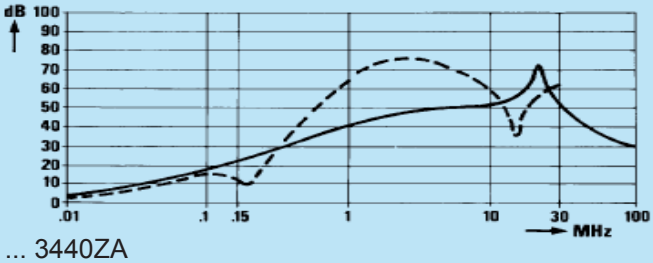
... 3200ZA



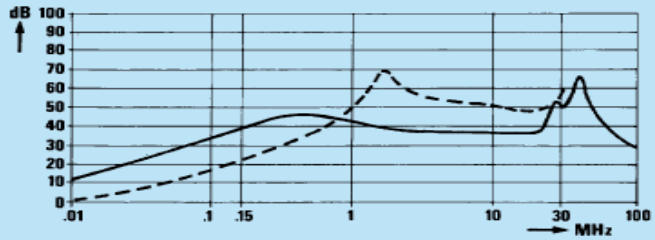
... 3200ZB



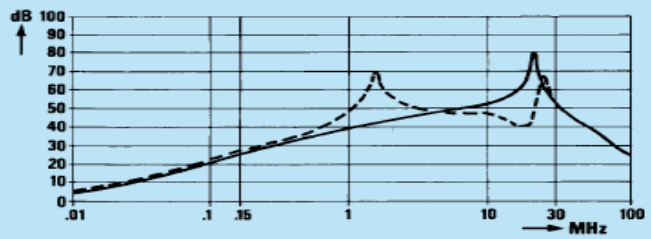
... 3200ZC ... 3200ZD ... 3200ZE



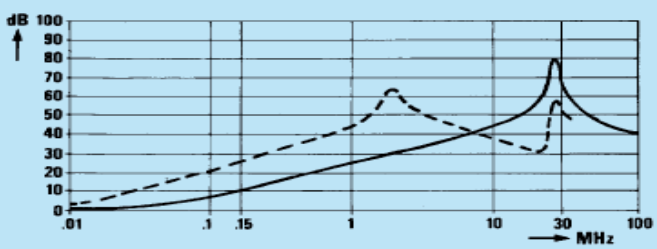
... 3440ZA



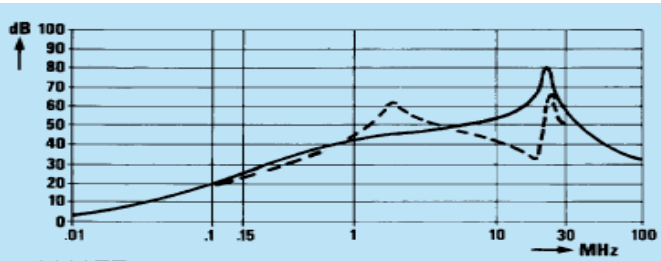
... 3470ZA



... 3600ZC



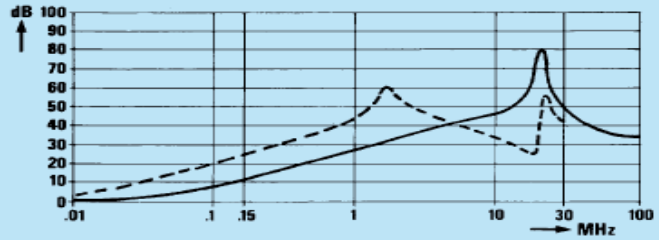
... 3600ZD



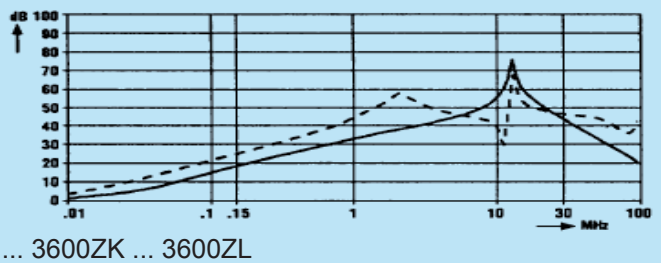
... 3600ZE

Insertion loss (typical): —— Asymmetrical (line to ground) - - - Symmetrical (line to line)

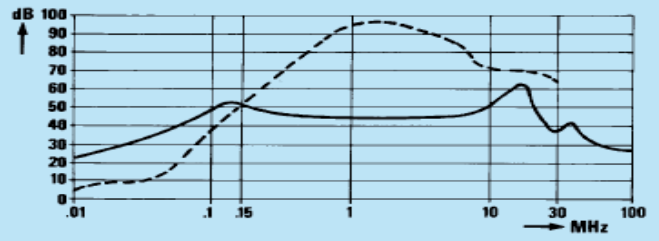
FAM



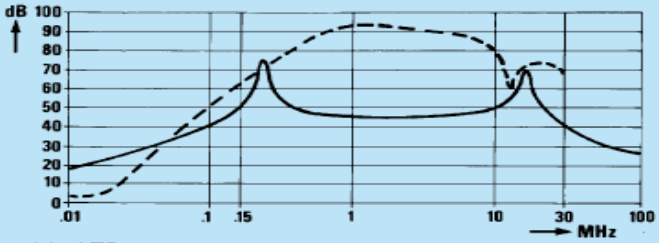
... 3600ZF ... 3600ZH



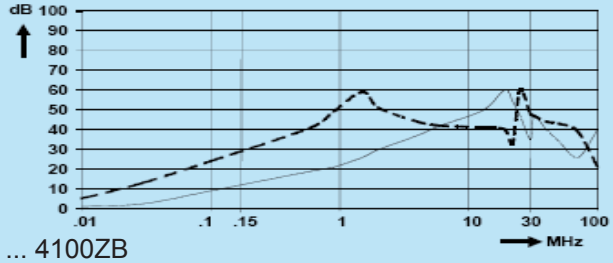
... 3600ZK ... 3600ZL



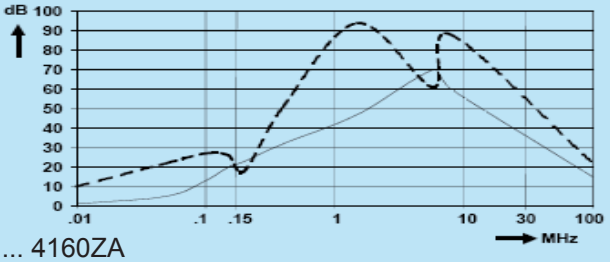
... 3940ZA



... 3940ZB



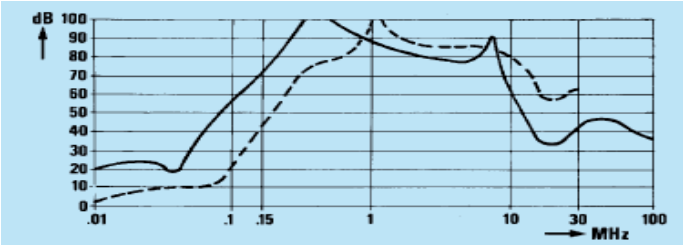
... 4100ZB



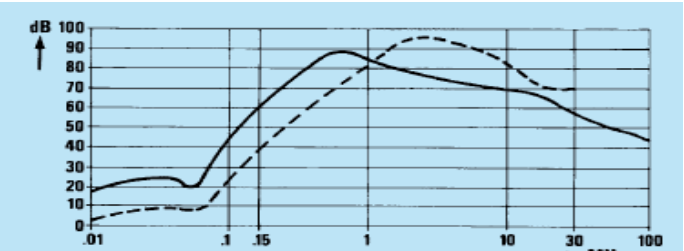
... 4160ZA

Insertion loss (typical): —— Asymmetrical (line to ground) - - - Symmetrical (line to line)

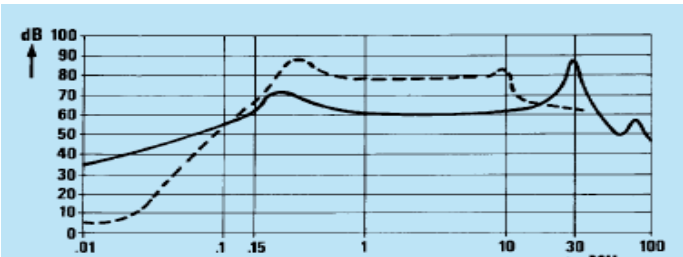
FAR



... 3620ZA ... 3620ZC

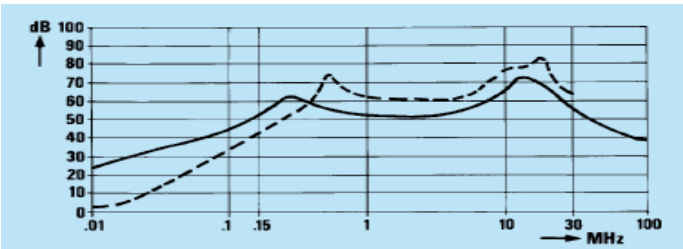


... 3620ZB ... 3620ZD

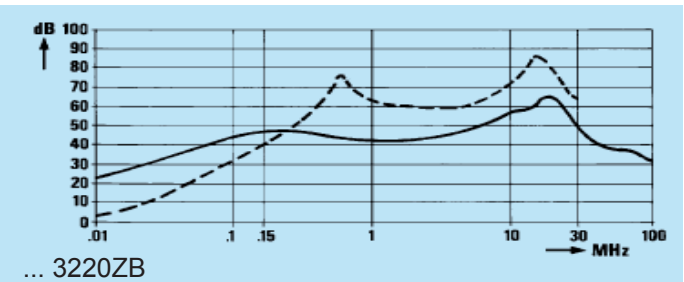


... 3940ZA

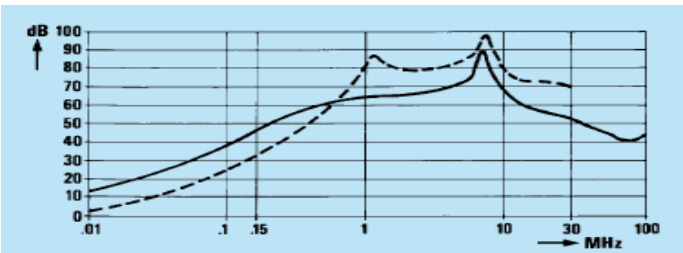
FAS



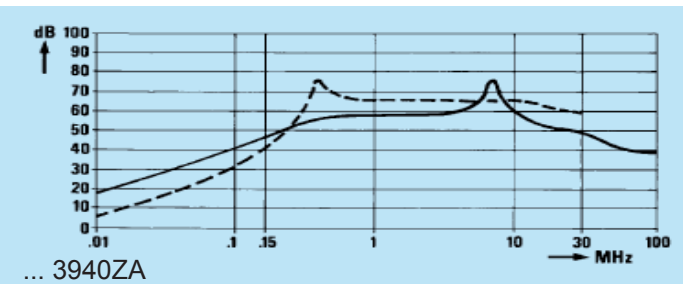
... 3220ZA



... 3220ZB



... 3470ZA ... 3470ZB



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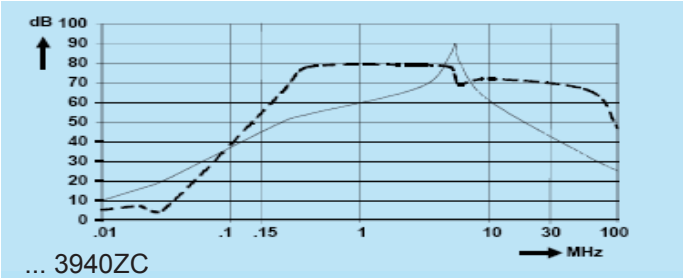

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