

FM Series

Miniature Toroidal - Single Primary



A high quality range of miniature open style toroidal transformers with flying leads. Featuring a single primary winding tapped at 115 and 230V 50/60Hz, and dual secondary windings. Secondary windings can be connected in series or parallel or used independently.

Features:

- High quality construction.
- Low radiated magnetic field, suitable for sensitive electronics.
- Double insulated primary leads.
- Resin filled centre with M4 clear mounting hole.
- Flexible lead outs can be trimmed to any length without the need of enamel removal.
- Suitable for use in low power equipment.
- Designed, tested and manufactured in accordance with EN60742, EN60065 and EN60950.
- 100% electrical and flash tested.

Specifications

VA	Regulation % typical	Iron Loss Watts	Copper Loss Watts	Temperature rise (°C)	Efficiency % typical	Diameter	Height	Weight (kg)
1.6	21	0.09	0.4	10	76%	42	23	0.13
3.2	20		0.8	16	79%	43	24	0.14
5.0	18	0.11	1.1	18	81%	50		0.17
7.0	19	0.13	1.6	25	80%	51		0.19

Figures given above are maximums for any given VA

Dimensions : Millimetres

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Maximum ambient temperature 40°C.

Overall temperature rating Class A (105°C).

Secondary voltage tolerance $\pm 1\%$ at nominal input and full resistive load.

No mounting screw supplied.

All leads 150mm long, stripped and tinned for last 6.0mm.

Note: Under no circumstances should both ends of any fixing bolt be allowed to come simultaneously in contact with metal chassis or framework so that an electrical path is formed through the bolt in the centre of the transformer via the external framework. This would constitute a shorted turn and would cause irreparable damage.

Specification Table

Specification	Load (VA)	Part Number
0-7V, 0-7V @ 0.114A	1.6	MCFM16/07
0-9V, 0-9V @ 0.089A		MCFM16/09
0-12V, 0-12V @ 0.067A		MCFM16/12
0-15V, 0-15V @ 0.053A		MCFM16/15
0-22V, 0-22V @ 0.036A		MCFM16/22
0-7V, 0-7V @ 0.229A	3.2	MCFM32/07
0-9V, 0-9V @ 0.178A		MCFM32/09
0-12V, 0-12V @ 0.133A		MCFM32/12
0-15V, 0-15V @ 0.2107A		MCFM32/15
0-18V, 0-18V @ 0.089A		MCFM32/18
0-7V, 0-7V @ 0.357A	5.0	MCFM50/07
0-9V, 0-9V @ 0.278A		MCFM50/09
0-12V, 0-12V @ 0.208A		MCFM50/12
0-15V, 0-15V @ 0.167A		MCFM50/15
0-18V, 0-18V @ 0.139A		MCFM50/18
0-22V, 0-22V @ 0.114A		MCFM50/22
0-7V, 0-7V @ 0.5A	7.0	MCFM70/07
0-9V, 0-9V @ 0.389A		MCFM70/09
0-12V, 0-12V @ 0.292A		MCFM70/12
0-15V, 0-15V @ 0.233A		MCFM70/15
0-18V, 0-18V @ 0.194A		MCFM70/18
0-22V, 0-22V @ 0.159A		MCFM70/22

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Notes:

International Sales Offices:



AUSTRALIA – Farnell InOne

Tel No: ++ 61 2 9645 8888
Fax No: ++ 61 2 9644 7898



FINLAND – Farnell InOne

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Tel No: ++ 46 8 730 50 00
Fax No: ++ 46 8 83 52 62

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