

FE Series - (Encapsulated)

Single Primary-Toroidal Transformers



Features:

- Very high quality construction
- High efficiency and smaller size compared to conventional EI transformers
- Extremely low radiated magnetic field, suitable for sensitive electronics
- Double insulated primary leads
- Flexible leadouts can be trimmed to any length without the need of enamel removal
- Fully resin encapsulated in case
- 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)	Fixing Hole Diameter
15	16	0.24	2.9	2.9	83%	62.4	34.5	0.34	5.1
30	12	0.39	4.5	4.5	86%	81.5	39.1	0.62	
50	11	0.52	6.1	6.1	88%	87.3	42	0.84	
80	10	0.64	8.7	8.7	90%	96.7	44	1.12	6.1
120	7	0.89	9.6	9.6	92%	104.2	52.1	1.62	
160		1.23	11.9	11.9		115	53.2	2.05	
225	6	1.51	14.9	14.9	93%	25.4	52.4	2.5	
300	5	1.89	17	17	94%	-	65.3	3.19	
500		2.76	24.6	24.6	95%	147.1	64.7	4.57	8.2

Dimensions : Millimetres

FE Series - (Encapsulated)

Single Primary-Toroidal Transformers



Maximum ambient temperature 40°C
 Overall temperature rating Class A (105°C)
 Secondary voltage tolerance $\pm 1\%$ at nominal input and full resistive load
 All leads 150 mm long, stripped and tinned for last 6 mm
 No mounting screw supplied

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 frame work. This would constitute a shorted turn and would cause irreparable damage

Specification Table

Specifications	Load (VA)	Specifications	Load (VA)
0-6 V, 0-6 V @ 1.25 A	15	0-18V, 0-18V @ 4.44A	160
0-9 V, 0-9 V @ 0.83 A		0-25V, 0-25V @ 3.2A	
0-12 V, 0-12 V @ 0.63 A		0-30V, 0-30V @ 2.67A	
0-15 V, 0-15 V @ 0.5 A		0-12V, 0-12V @ 9.38A	
0-18 V, 0-18 V @ 0.42 A		0-15V, 0-15V @ 7.5A	225
0-25 V, 0-25 V @ 0.3 A		0-18V, 0-18V @ 6.25A	
0-6 V, 0-6 V @ 2.5 A	30	0-25V, 0-25V @ 4.5A	
0-9 V, 0-9 V @ 1.67A		0-30V, 0-30V @ 3.75A	300
0-15 V, 0-15 V @ 1 A		0-25V, 0-25V @ 6A	
0-18 V, 0-18 V @ 0.83 A		0-30V, 0-30V @ 5A	
0-25 V, 0-25 V @ 0.6 A		0-35V, 0-35V @ 4.29A	500
0-9 V, 0-9 V @ 2.78 A	50	0-25V, 0-25V @ 10A	
0-12 V, 0-12 V @ 2.08 A		0-35V, 0-35V @ 7.14A	
0-15 V, 0-15 V @ 1.67 A		0-40V, 0-40V @ 6.25A	
0-18 V, 0-18 V @ 1.39 A			
0-25 V, 0-25 V @ 1 A			
0-9 V, 0-9 V @ 4.44 A	80		
0-12 V, 0-12 V @ 3.33 A			
0-18 V, 0-18 V @ 2.22 A			
0-25 V, 0-25 V @ 1.6 A			
0-12 V, 0-12 V @ 5 A	120		
0-15 V, 0-15 V @ 4 A			
0-18 V, 0-18 V @ 3.33 A			
0-25 V, 0-25 V @ 2.4 A			

FE Series - (Encapsulated)

Single Primary-Toroidal Transformers



Part Number Table

Description	Part Number
TRANSFORMER, 50 VA, 2 x 25 V	MCFE050/25
TRANSFORMER, 80 VA, 2 x 9 V	MCFE080/09
TRANSFORMER, 80 VA, 2 x 12 V	MCFE080/12
TRANSFORMER, 80 VA, 2 x 18 V	MCFE080/18
TRANSFORMER, 80 VA, 2 x 25 V	MCFE080/25
TRANSFORMER, 120 VA, 2 x 12 V	MCFE120/12
TRANSFORMER, 120 VA, 2 x 15 V	MCFE120/15
TRANSFORMER, 120 VA, 2 x 18 V	MCFE120/18
TRANSFORMER, 120 VA, 2 x 25 V	MCFE120/25
TRANSFORMER, 160 VA, 2 x 18 V	MCFE160/18
TRANSFORMER, 160 VA, 2 x 25 V	MCFE160/25
TRANSFORMER, 160 VA, 2 x 30 V	MCFE160/30
TRANSFORMER, 225 VA, 2 x 12 V	MCFE225/12
TRANSFORMER, 225 VA, 2 x 15 V	MCFE225/15
TRANSFORMER, 225 VA, 2 x 18 V	MCFE225/18
TRANSFORMER, 225 VA, 2 x 25 V	MCFE225/25
TRANSFORMER, 225 VA, 2 x 30 V	MCFE225/30
TRANSFORMER, 300 VA, 2 x 25 V	MCFE300/25
TRANSFORMER, 300 VA, 2 x 30 V	MCFE300/30
TRANSFORMER, 300 VA, 2 x 35 V	MCFE300/35
TRANSFORMER, 500 VA, 2 x 25 V	MCFE500/25
TRANSFORMER, 500 VA, 2 x 35 V	MCFE500/35
TRANSFORMER, 500 VA, 2 x 40 V	MCFE500/40

Description	Part Number
TRANSFORMER, 15VA, 2 x 6V	MCFE015/06
TRANSFORMER, 15VA, 2 x 9V	MCFE015/09
TRANSFORMER, 15VA, 2 x 12V	MCFE015/12
TRANSFORMER, 15VA, 2 x 15V	MCFE015/15
TRANSFORMER, 15VA, 2 x 18V	MCFE015/18
TRANSFORMER, 15VA, 2 x 25V	MCFE015/25
TRANSFORMER, 30VA, 2 x 6V	MCFE030/06
TRANSFORMER, 30VA, 2 x 9V	MCFE030/09
TRANSFORMER, 30VA, 2 x 15V	MCFE030/15
TRANSFORMER, 30VA, 2 x 18V	MCFE030/18
TRANSFORMER, 30VA, 2 x 25V	MCFE030/25
TRANSFORMER, 50VA, 2 x 9V	MCFE050/09
TRANSFORMER, 50VA, 2 x 12V	MCFE050/12
TRANSFORMER, 50VA, 2 x 15V	MCFE050/15
TRANSFORMER, 50VA, 2 x 18V	MCFE050/18

Disclaimer This data sheet and its contents (the "Information") belong to the Premier Farnell Group (the "Group") or are licensed to it. No licence is granted for the use of it other than for information purposes in connection with the products to which it relates. No licence of any intellectual property rights is granted. The Information is subject to change without notice and replaces all data sheets previously supplied. The Information supplied is believed to be accurate but the Group assumes no responsibility for its accuracy or completeness, any error in or omission from it or for any use made of it. Users of this data sheet should check for themselves the Information and the suitability of the products for their purpose and not make any assumptions based on information included or omitted. Liability for loss or damage resulting from any reliance on the Information or use of it (including liability resulting from negligence or where the Group was aware of the possibility of such loss or damage arising) is excluded. This will not operate to limit or restrict the Group's liability for death or personal injury resulting from its negligence. Multicomp is the registered trademark of the Group. © Premier Farnell plc 2012.