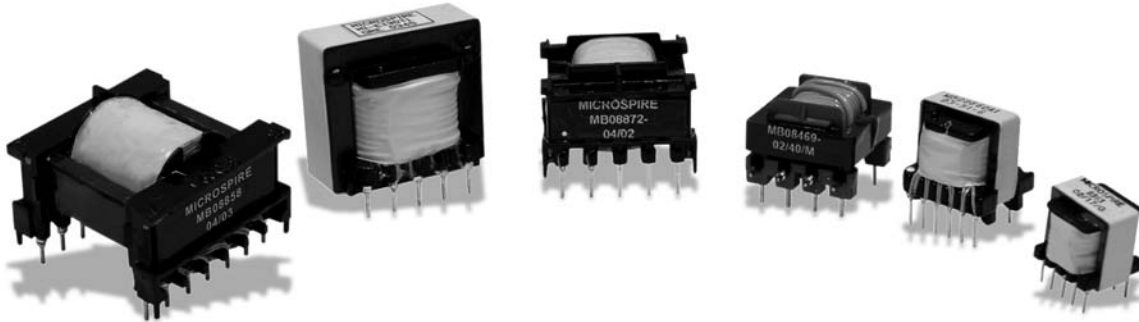


Flyback Safety Insulating Transformers FSIT Series



Package	Output Power (W)	Max Dimensions (LxWxH in mm)	Number of pins (through hole)	Connected ICs
FSIT 13	0-6	16 x 15 x 15,5	2 x 5	LNK501, TNY253-254-255, TNY264P/G, TOP242P/G, ICE3A/B0365, VIPer12A, NCP1200
FSIT 16	0-10	19 x 17 x 19,5	6 + 4	LNK501, TNY253-254-255, TNY264-266P/G, TOP242P/G, ICE3A/B0365, VIPer12A-20A, NCP1200
FSIT 20	10-20	22 x 21,5 x 16,5	2 x 4	TOP242-243Y/F, ICE3A/B1065-1565, VIPer22A-50A, NCP1200
FSIT 20.1	10-20	22 x 21,5 x 17	2 x 5	TOP242-243Y/F, ICE3A/B1065-1565, VIPer22A-50A, NCP1200
FSIT 25	20-35	28 x 28,5 x 20,5	2 x 5	TOP242-244Y/F, ICE3A/B2065-2565, VIPer50A-53-100A, NCP1200
FSIT 29	35-70	35,5 x 35,5 x 25,5	6 + 7	TOP244-245-246Y/F, ICE3A/B3065-4065P, VIPer100A, NCP1200

- Thermal index according to IEC85: from* class A (105 °C) to F (155 °C)

Other packages and connections available on demand according to your specification for power range up to 250W

- Applied standards: EN60950-1, EN61558-1/-2-17, EN60335-1, EN60065
- Materials meet UL94-V0 rating
- Ambient temperature range: -25 °C +50 °C (+70 °C/+85 °C**)
- Storage temperature range: -40 °C +85 °C
- Associated to latest generation ICs, they replace with competitive pricing and lower size old linear power supplies
- Six standard packages for catalog or custom designs
- Compliant with basic/supplementary to reinforced insulation from the mains according to common applied standards
- Optimized construction of primary winding for low switching losses and low EMI
- Low leakage inductance for improved converter efficiency
- Utilization of triple insulated wire and high performance ferrites
- Increased performances based on optimized designs on accurate automatic software tools linked to transformer

datasheets proposed by ICs manufacturers

- Manufacturing in low-cost country

Our transformers can be associated to input common mode filtering chokes and output filtering chokes

- * Depending on winding technique used for insulation requirements
- ** Depending on component heating and thermal class

Packaging to be defined according to batch size.



Flyback Safety Insulating Transformers

FSIT 13 Series & FSIT 16 Series



- 0 to 6W transformers for AC/DC converters connected to the mains
- Low cost and small package 2x5 pin through hole version
- Compliant with basic/supplementary insulation up to 265Vrms
- Clearance and creepage distance up to 4mm
- Dielectric strength up to 2kV (50Hz-1min)
- Approx weight : 5grams

Electrical Data - FSIT 13

ID Code	Mains Input Voltage Range (Vrms)	Output Power (W)	Designed Outputs	Connected IC(s)	Working Frequency	Applied standard(s)	Standard Requirements
FSIT13 W85 01	185 - 265V (5° - 1)	0.85W	5V / 50mA (8° - 6) 12V / 50mA (10° - 6)	LNK501	42kHz	EN60950	Basic / Supplementary 1500Vrms
FSIT13 2W5 01	85 - 265V (5° - 4)	2.44W	5V / 200mA (7° - 6) 15V / 80mA (8° - 6) 8V / 30mA (10° - 9)	TNY264	132kHz	-	Operational 1500Vrms
FSIT13 6W0 01	85V - 265V (4° - 2)	5.95W	5V / 350mA (8° - 6) 12V / 350mA (10° - 6)	TNY264, TNY266	132kHz	-	Operational 1500Vrms

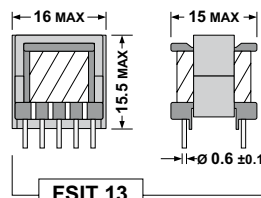


- 0 to 10W transformers for AC/DC converters connected to the mains (50/60Hz)
- Low cost and small package 6+4 pin through hole version (EE-16)
- Compliant with reinforced insulation up to 265Vrms working voltage
- Clearance and creepage distance up to 8mm
- Dielectric strength up to 4kV (50Hz-1min)
- Approx weight : 7 grams

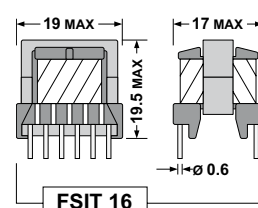
Electrical Data - FSIT 16

ID Code	Mains Input Voltage Range (Vrms)	Output Power (W)	Designed Outputs	Connected IC(s)	Working Frequency	Applied standard(s)	Standard Requirements
FSIT16 W80 01	180 - 265V (8° - 9)	0,8W	8V / 100mA (5° - 2)	LNK501	42kHz	EN60950	Reinforced 3750Vrms
FSIT16 1W2 01	180 - 265V (8° - 9)	1,2W	24V / 50mA (5° - 2)	LNK501	42kHz	EN60950	Reinforced 3750Vrms
FSIT16 2W5 01	90 - 264 (10° - 8)	2,35W	5V / 200mA (2° - 1) 15V / 80mA (3° - 1) -5V / 30mA (6° - 5) BIAS (3° - 1)	VIPer12A	60kHz	EN60335-1	Operational 1500Vrms
FSIT16 4W5 01	85 - 265V (9° - 10)	4,4W	1,8V / 600mA (2° - 1) 3,3V / 400mA (4° - 1) 6V / 300mA (5° - 1) 12V / 15mA (6° - 1) BIAS (7° - 8)	TOP242	132kHz	EN60950	Reinforced 4000Vrms
FSIT16 6W5 01	85 - 265V (9° - 10)	5,86W	12V / 80mA (2° - 1) 5V / 80mA (4° - 3) 5V / 900mA (6° - 5) BIAS (7° - 8)	VIPer12A	60kHz	EN60950	Reinforced 3750Vrms
FSIT16 8W5	85 - 265V (4° - 6)	8,3W	24V / 200mA (7° - 10) 15V / 200mA (8° - 10) 5V / 100mA (9° - 10) BIAS (2° - 1)	VIPer22A	60kHz	EN60950	Reinforced 3000Vrms
FSIT16 9W 01	85 - 265V (10° - 9)	9W	6V / 1,5A (5° - 2)	TNY268	132kHz	EN60950	Reinforced 3750Vrms
FSIT16 5W 01	85 - 265V (9° - 10)	5W	12V / 420mA (4° - 3) BIAS (7° - 8)	VIPer22A	50kHz	-	Operational 1500Vrms

Typical Dimensions (mm)



Bottom view



Bottom view

Flyback Safety Insulating Transformers

FSIT 20 Series & FSIT 20.1 Series



- 10 to 20W transformers for AC/DC converters connected to the mains
- 2x4 pin through hole version (EF20)
- Compliant with reinforced insulation up to 265Vrms working voltage
- Clearance and creepage distance up to 8mm
- Dielectric strength up to 4kV (50Hz-1min)
- Approx weight: 20 grams

Electrical Data FSIT 20

ID Code	Mains Input Voltage Range (Vrms)	Output Power (W)	Designed Outputs	Connected IC(s)	Working Frequency	Applied standard(s)	Standard Requirements
FSIT20 20W 01	85 - 265V (3° - 4)	20W	15V / 1.35A (5° - 8) BIAS (2° - 1)	TOP244G	132kHz	EN60950	Reinforced 4000Vrms
FSIT20 20W 02	85V - 265V (2° - 3)	20W	15V / 1.35A (5° - 8)	NCP1200	60kHz	EN60950	Reinforced 4000Vrms

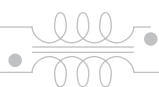
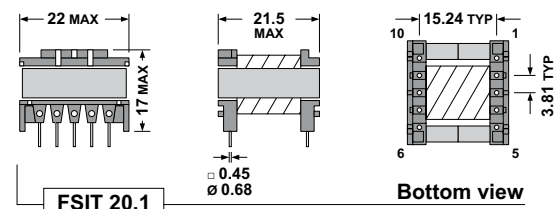
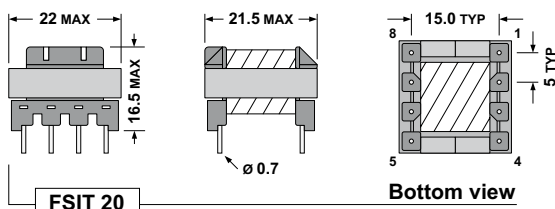


- 10 to 20W transformers for AC/DC converters connected to the mains (50/60Hz)
- 2x5 pin through hole version (EF20)
- Compliant with reinforced insulation up to 265Vrms working voltage
- Clearance and creepage distance up to 8mm
- Dielectric strength up to 4kV (50Hz-1min)
- Approx weight: 20 grams

Electrical Data FSIT 20.1

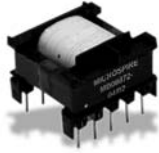
ID Code	Mains Input Voltage Range (Vrms)	Output Power (W)	Designed Outputs	Connected IC(s)	Working Frequency	Applied standard(s)	Standard Requirements
FSIT20.1 3W5 01	50 - 500V (4° - 5)	3,35W	21V / 70mA (10° - 9) 10V / 100mA (7° - 6) 35V / 25mA (2° - 1)	TNY255 + external MOS	130kHz	EN60950	Reinforced 4000Vrms
FSIT20.1 7W2 01	180 - 265V (3° - 2)	7,2W	4,4V / 150mA (10° - 9) -35V / 80mA (8° - 7) -61,8V / 60mA (8° - 6) BIAS (5° - 4)	TOP243	132kHz	EN60950	Reinforced 4000Vrms
FSIT20.1 12W5 01	85 - 265V (3° - 1)	12,5W	5V / 1,25A (8° - 7) 5V / 1,25A (9° - 6)	TNY268	132kHz	EN60950	Reinforced 3750Vrms
FSIT20.1 13W 01	85 - 265V (3° - 1)	12,9W	48V / 270mA (10° - 6)	TNY268	132kHz	EN60950	Reinforced 3750Vrms
FSIT20.1 20W 01	185 - 265V (2° - 1)	19,25W	5V / 0,8A (9° - 10) 7,5V / 0,9A (8° - 10) 12V / 30mA (7° - 10) 65V / 125mA (6° - 10) BIAS (5° - 4)	VIPer20ASP	120kHz	EN60950	Reinforced 3000Vrms

Typical Dimensions (mm)



Flyback Safety Insulating Transformers

FSIT 25 Series & FSIT 29 Series



- 20 to 35W transformers for AC/DC converters connected to the mains
- 2x5 pin through hole version
- Compliant with reinforced insulation up to 265Vrms working voltage
- Clearance and creepage distance up to 8mm
- Dielectric strength up to 4kV (50Hz-1min)
- Approx weight : 25grams

Electrical Data FSIT 25

ID Code	Mains Input Voltage Range (Vrms)	Output Power (W)	Designed Outputs	Connected IC(s)	Working Frequency	Applied standard(s)	Standard Requirements
FSIT25 15W 01	85 - 265V (2° - 1)	14W	14,5V / 0.95A (10° - 9) 20V / 15mA (7° - 6) BIAS (4° - 5)	VIPer50	100kHz	EN60950	Reinforced 4000Vrms
FSIT25 15W 02	180V - 265V (3° - 1)	14,5W	2,4V / 1A (9° - 10) 3,3V / 2A (8° - 10) 5,1V / 300mA (7° - 10) 32,6V / 120mA (6° - 10) BIAS (5° - 4)	TOP242 TOP243	132kHz	EN60950	Reinforced 4000Vrms
FSIT25 25W 01	180 - 480V (2° - 1)	25W	19V / 300mA (9° - 10) 24V / 800mA (6° - 7)	NCP1200	40kHz	EN60950	Reinforced 4000Vrms
FSIT25 35W 01	185 - 265V (2° - 1)	35W	6,8V / 5A (6 / 7° - 9 / 10) BIAS (5° - 4)	TOP244	132kHz	EN60950	Reinforced 4000Vrms

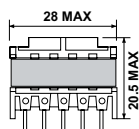


- 35 to 70W transformers for AC/DC converters connected to the mains (50/60Hz)
- 6+7 pin through hole version (ETD29)
- Compliant with reinforced insulation up to 265Vrms working voltage
- Clearance and creepage distance up to 8mm
- Dielectric strength up to 4kV (50Hz-1min)
- Approx weight : 50grams

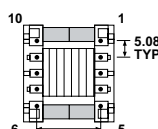
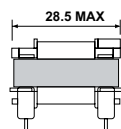
Electrical Data FSIT 29

ID Code	Mains Input Voltage Range (Vrms)	Output Power (W)	Designed Outputs	Connected IC(s)	Working Frequency	Applied standard(s)	Standard Requirements
FSIT29 48W 01	85 - 265V (3° - 1)	48W	48V / 1A (11° - 13) BIAS (5° - 4)	VIPer53	100Hz	EN60950	Reinforced 4000Vrms
FSIT29 48W 02	85 - 265V (3° - 1)	48W	24V / 1A (11° - 12) 24V / 1A (10° - 13) BIAS (5° - 4)	VIPer53	100Hz	EN60950	Reinforced 4000Vrms
FSIT29 55W 01	85 - 265V (3° - 1)	55,5W	20,5V / 1,5A (12/13° - 10/11) 60V / 400mA (8° - 7) 180V / 4mA (9° - 7) BIAS (5° - 6)	ICE2B765P2	67kHz	EN60950	Reinforced 4000Vrms
FSIT29 60W 01	85 - 480V (3° - 1)	60W	24V / 1,1A (13° - 12) 10V / 1,1A (11° - 10) 15V / 1,5A (9° - 8) -15V / 250mA (8° - 7) BIAS (5° - 6)	VIPer100	70kHz	EN60950	Reinforced 4000Vrms
FSIT29 70W 01	185 - 265V (4° - 6)	70W	14V / 2,5A (7° - 9) 14V / 2,5A (10° - 12) BIAS (3° - 2)	TOP245Y	132kHz	EN60950	Reinforced 4000Vrms

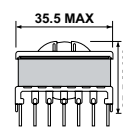
Typical Dimensions (mm)



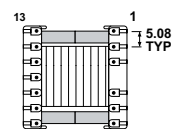
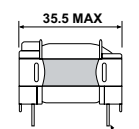
FSIT 25



Bottom View



FSIT 29



Bottom View