power table
ETD 19 - ETD 59

- application as SMPS, open, impregnated or potted
- application also as storage choke
- custom-built development for switching frequencies from 20 kHz - 300 kHz (500 kHz) on your application, also for multiple output voltages
- construction for safety electrical disconnection satisfying EN 61558-2-17 (VDE 0570 part 2-17) respectively EN 60950 respectively EN 60065 or IEC 601
- optional: UL-insulating system class B for impregnated or potted transformer
- ferrite components N 27, N 67, N 87 or N 97
- also until ta 105°C and class F (155°C) as special version possible
- possible winding technique: copper wire and/or HF stranded wire in class F (155°C) copper foil winding, polyimid insulated wires (3-times bandage)

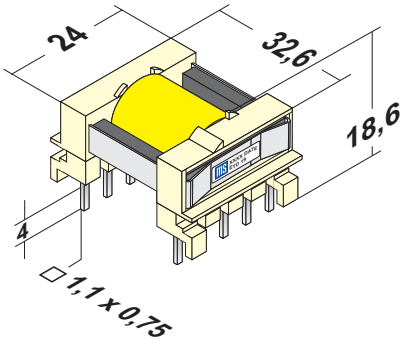
maximum power as flyback-, forward- or push-pull working type
guide number on practical experience and computer based model calculations
power table is for ta 40°C / B, impregnated with N27 / N67 (standard)

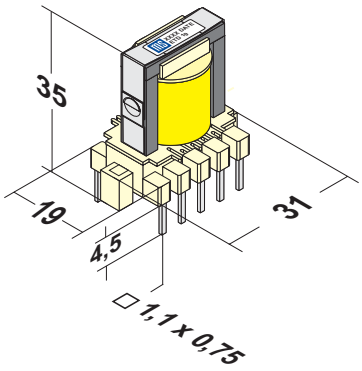
type	frequency	flyback	forward	push-pull
ETD 19	25 kHz 50 kHz 100 kHz	14 VA 25 VA 40 VA	17 VA 30 VA 50 VA	35 VA 55 VA 75 VA
ETD 29	25 kHz 50 kHz 100 kHz	35 VA 60 VA 85 VA	40 VA 70 VA 110 VA	80 VA 120 VA 180 VA
ETD 34	25 kHz 50 kHz 100 kHz	45 VA 100 VA 150 VA	80 VA 120 VA 180 VA	125 VA 180 VA 280 VA
ETD 39	25 kHz 50 kHz 100 kHz	80 VA 160 VA 250 VA	100 VA 190 VA 300 VA	200 VA 300 VA 470 VA
ETD 44	25 kHz 50 kHz 100 kHz	150 VA 220 VA 340 VA	175 VA 275 VA 400 VA	300 VA 400 VA 600 VA
ETD 49	25 kHz 50 kHz 100 kHz	175 VA 275 VA 400 VA	215 VA 350 VA 500 VA	375 VA 520 VA 725 VA
ETD 54	25 kHz 50 kHz 100 kHz	265 VA 400 VA ----- VA	320 VA 525 VA 750 VA	565 VA 775 VA 1050 VA
ETD 59	25 kHz 50 kHz 100 kHz	400 VA ----- VA ----- VA	530 VA 880 VA 1250 VA	950 VA 1300 VA 1750 VA

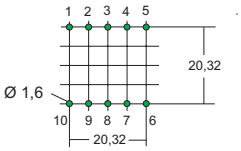
Manfred Schmelzer GmbH
Waidplatzstrasse 6-8 · D-79331 Teningen-Nimburg
phone: +49 76 63 / 94 47 -0 · fax: +49 76 63 / 94 47 -50
info@ms-transformers.de
www.ms-transformers.de

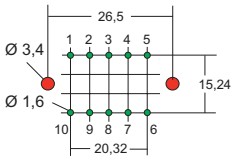
type ETD 19

14 ... 75 VA









view on pin-side
pin grid = 5,08 mm

ETD 19

maximum power as flyback-, forward- or push-pull working type
guide number on practical experience and computer based model calculations
power table is for ta 40°C / B, impregnated with N27 / N67 (standard)

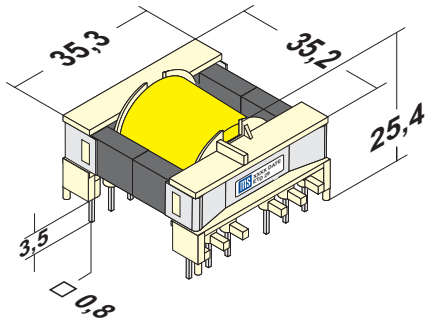
frequency	flyback	forward	push-pull
25 kHz	14 VA	17 VA	35 VA
50 kHz	25 VA	30 VA	55 VA
100 kHz	40 VA	50 VA	75 VA

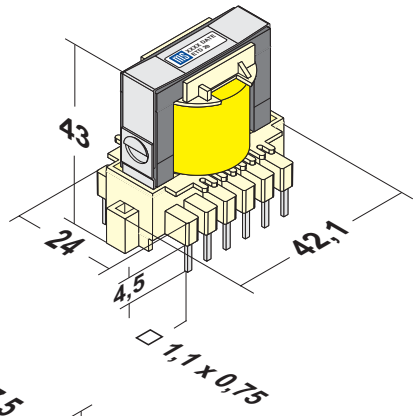
- application as SMPS, open or impregnated
- application also as storage choke
- custom-built development for switching frequencies from 20 kHz - 300 kHz (500 kHz) on your application, also for multiple output voltages
- construction for safety electrical disconnection satisfying EN 61558-2-17 (VDE 0570 part 2-17) respectively EN 60950 respectively EN 60065 or IEC 601
- optional: UL-insulating system class B for impregnated transformer
- ferrite components N 27, N 67, N 87 or N 97
- also until ta 105°C and class F (155°C) as special version possible
- possible winding technique: copper wire and/or HF stranded wire in class F (155°C)
  copper foil winding, polyimid insulated wires (3-times bandage)

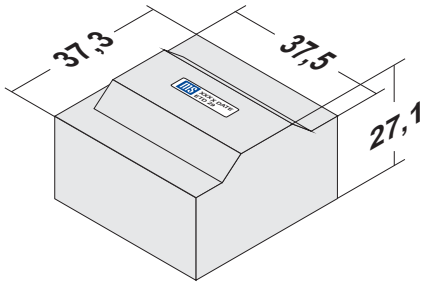
Manfred Schmelzer GmbH
Waidplatzstrasse 6-8 · D-79331 Teningen-Nimburg
phone: +49 76 63 / 94 47 -0 · fax: +49 76 63 / 94 47 -50
info@ms-transformers.de
www.ms-transformers.de

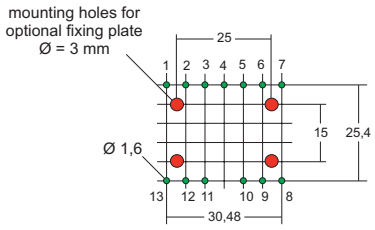
type ETD 29

35 ... 180 VA

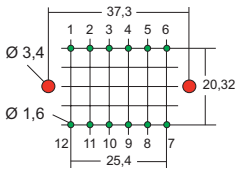








view on pin side
pin grid = 5,08 mm



ETD 29

maximum power as flyback-, forward- or push-pull working type
guide number on practical experience and computer based model calculations
power table is for ta 40°C / B, impregnated with N27 / N67 (standard)

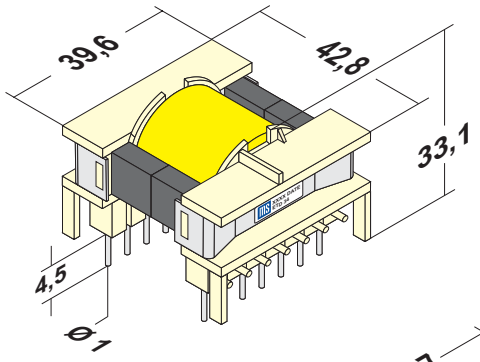
frequency	flyback	forward	push-pull
25 kHz	35 VA	40 VA	80 VA
50 kHz	60 VA	70 VA	120 VA
100 kHz	85 VA	110 VA	180 VA

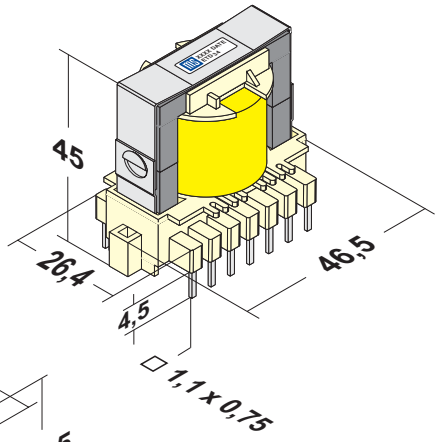
- application as SMPS, open, impregnated or potted
- application also as storage choke
- custom-built development for switching frequencies from 20 kHz - 300 kHz (500 kHz) on your application, also for multiple output voltages
- construction for safety electrical disconnection satisfying EN 61558-2-17 (VDE 0570 part 2-17) respectively EN 60950 respectively EN 60065 or IEC 601
- optional: UL-insulating system class B for impregnated or potted transformer
- ferrite components N 27, N 67, N 87 or N 97
- also until ta 105°C and class F (155°C) as special version possible
- possible winding technique: copper wire and/or HF stranded wire in class F (155°C)
  copper foil winding, polyimid insulated wires (3-times bandage)

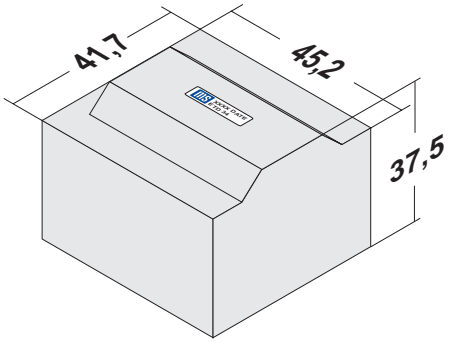
Manfred Schmelzer GmbH
Waidplatzstrasse 6-8 · D-79331 Teningen-Nimburg
phone: +49 76 63 / 94 47 -0 · fax: +49 76 63 / 94 47 -50
info@ms-transformers.de
www.ms-transformers.de

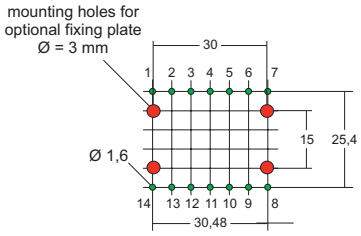
type ETD 34

45 ... 280 VA

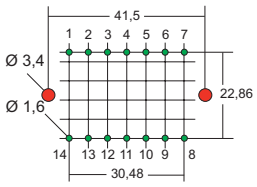








view on pin side
pin grid = 5,08 mm



ETD 34

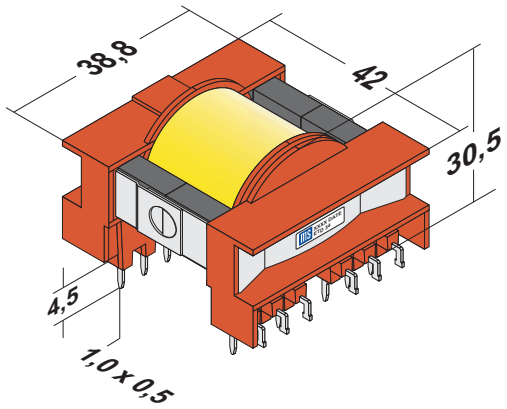
maximum power as flyback-, forward- or push-pull working type
guide number on practical experience and computer based model calculations
power table is for ta 40°C / B, impregnated with N27 / N67 (standard)

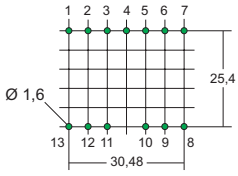
frequency	flyback	forward	push-pull
25 kHz	45 VA	60 VA	125 VA
50 kHz	100 VA	120 VA	180 VA
100 kHz	150 VA	180 VA	280 VA

- application as SMPS, open, impregnated or potted
- application also as storage choke
- custom-built development for switching frequencies from 20 kHz - 300 kHz (500 kHz) on your application, also for multiple output voltages
- construction for safety electrical disconnection satisfying EN 61558-2-17 (VDE 0570 part 2-17) respectively EN 60950 respectively EN 60065 or IEC 601
- optional: UL-insulating system class B for impregnated or potted transformer
- ferrite components N 27, N 67, N 87 or N 97
- also until ta 105°C and class F (155°C) as special version possible
- possible winding technique: copper wire and/or HF stranded wire in class F (155°C)
  copper foil winding, polyimid insulated wires (3-times bandage)

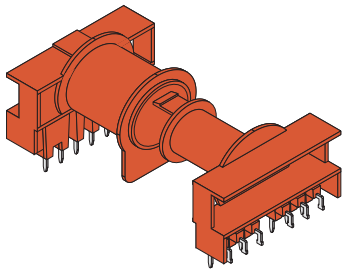
Manfred Schmelzer GmbH
Waidplatzstrasse 6-8 · D-79331 Teningen-Nimburg
phone: +49 76 63 / 94 47 -0 · fax: +49 76 63 / 94 47 -50
info@ms-transformers.de
www.ms-transformers.de

type ETD 34 - plug-in chamber 40 ... 250 VA





view on the pin side
pin grid = 5,08 mm



look at the unwinding
bobbin

ETD 34

maximum power as flyback-, forward- or push-pull working type
guide number on practical experience and computer based model calculations
power table is for ta 40°C / B, impregnated with N27 / N67 (standard)

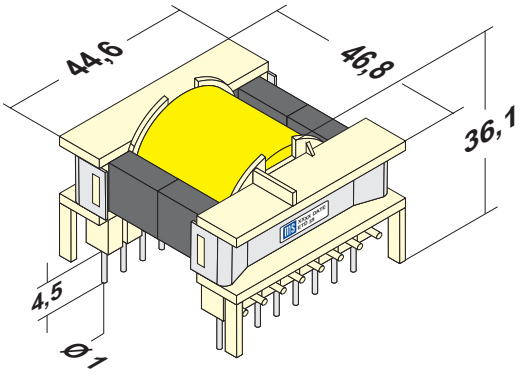
frequency	flyback	forward	push-pull
25 kHz	40 VA	55 VA	110 VA
50 kHz	90 VA	110 VA	165 VA
100 kHz	135 VA	165 VA	250 VA

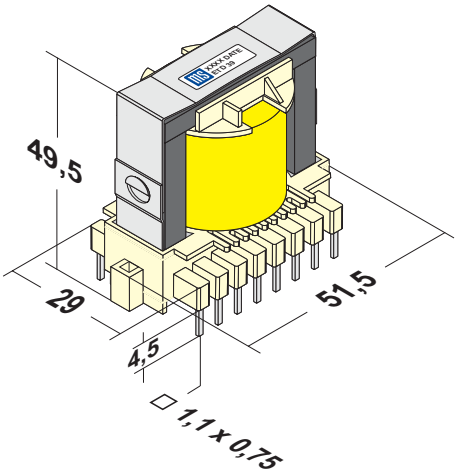
- application as SMPS, open or impregnated
- application also as storage choke
- custom-built development for switching frequencies from 20 kHz - 300 kHz (500 kHz) on your application, also for multiple output voltages
- construction for safety electrical disconnection satisfying EN 61558-2-17 (VDE 0570 part 2-17) respectively EN 60950 respectively EN 60065 or IEC 601
- optional: UL-insulating system class B for impregnated transformer
- ferrite components N 27, N 67, N 87 or N 97
- also until ta 105°C and class F (155°C) as special version possible
- possible winding technique: copper wire and/or HF stranded wire in class F (155°C)
  copper foil winding, polyimid insulated wires (3-times bandage)

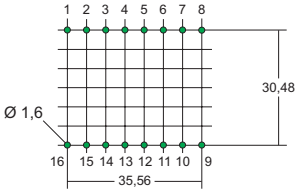
Manfred Schmelzer GmbH
Waidplatzstrasse 6-8 · D-79331 Teningen-Nimburg
phone: +49 76 63 / 94 47 -0 · fax: +49 76 63 / 94 47 -50
info@ms-transformers.de
www.ms-transformers.de

type ETD 39 impregnated

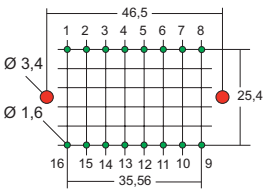
80 ... 470 VA







view on pin side
pin grid = 5,08 mm



ETD 39

maximum power as flyback-, forward- or push-pull working type
guide number on practical experience and computer based model calculations
power table is for ta 40°C / B, impregnated with N27 / N67 (standard)

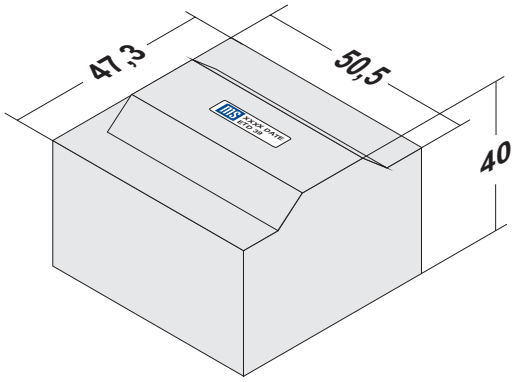
frequency	flyback	forward	push-pull
25 kHz	80 VA	100 VA	200 VA
50 kHz	160 VA	190 VA	300 VA
100 kHz	250 VA	300 VA	470 VA

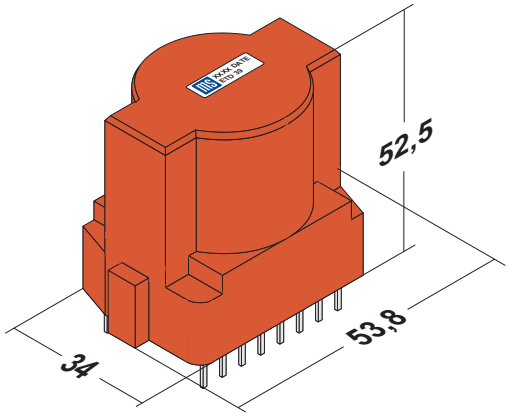
- application as SMPS, open or impregnated
- application also as storage choke
- custom-built development for switching frequencies from 20 kHz - 300 kHz (500 kHz) on your application, also for multiple output voltages
- construction for safety electrical disconnection satisfying EN 61558-2-17 (VDE 0570 part 2-17) respectively EN 60950 respectively EN 60065 or IEC 601
- optional: UL-insulating system class B for impregnated transformer
- ferrite components N 27, N 67, N 87 or N 97
- also until ta 105°C and class F (155°C) as special version possible
- possible winding technique: copper wire and/or HF stranded wire in class F (155°C)
  copper foil winding, polyimid insulated wires (3-times bandage)

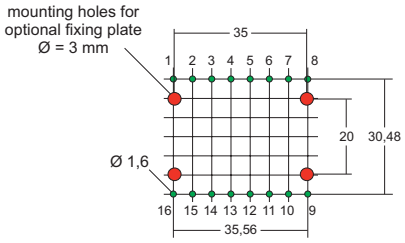
Manfred Schmelzer GmbH
Waidplatzstrasse 6-8 · D-79331 Teningen-Nimburg
phone: +49 76 63 / 94 47 -0 · fax: +49 76 63 / 94 47 -50
info@ms-transformers.de
www.ms-transformers.de

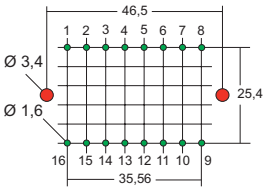
type ETD 39 potted

80 ... 470 VA









view on pin side
pin grid = 5,08 mm

ETD 39

maximum power as flyback-, forward- or push-pull working type
guide number on practical experience and computer based model calculations
power table is for ta 40°C / B, impregnated with N27 / N67 (standard)

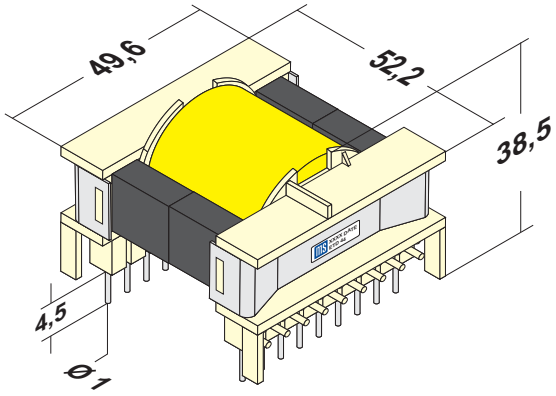
frequency	flyback	forward	push-pull
25 kHz	80 VA	100 VA	200 VA
50 kHz	160 VA	190 VA	300 VA
100 kHz	250 VA	300 VA	470 VA

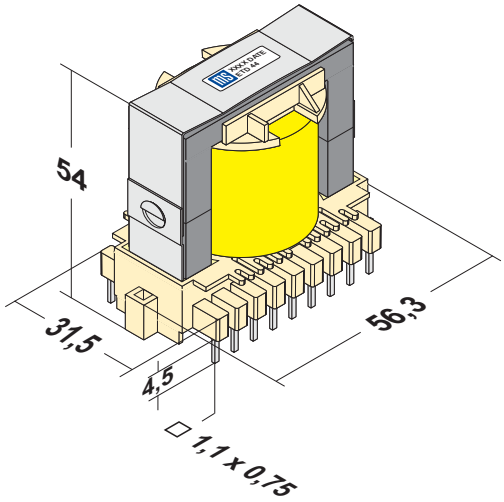
- application as SMPS potted
- application also as storage choke
- custom-built development for switching frequencies from 20 kHz - 300 kHz (500 kHz) on your application, also for multiple output voltages
- construction for safety electrical disconnection satisfying EN 61558-2-17 (VDE 0570 part 2-17) respectively EN 60950 respectively EN 60065 or IEC 601
- optional: UL-insulating system class B for potted transformer
- ferrite components N 27, N 67, N 87 or N 97
- also until ta 105°C and class F (155°C) as special version possible
- possible winding technique: copper wire and/or HF stranded wire in class F (155°C)
  copper foil winding, polyimid insulated wires (3-times bandage)

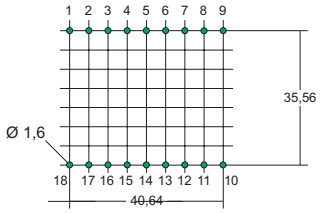
Manfred Schmelzer GmbH
Waidplatzstrasse 6-8 · D-79331 Teningen-Nimburg
phone: +49 76 63 / 94 47 -0 · fax: +49 76 63 / 94 47 -50
info@ms-transformers.de
www.ms-transformers.de

type ETD 44 impregnated

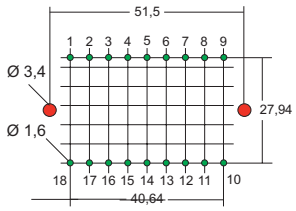
150 ... 600 VA







view on pin side
pin grid = 5,08 mm



ETD 44

maximum power as flyback-, forward- or push-pull working type
guide number on practical experience and computer based model calculations
power table is for ta 40°C / B, impregnated with N27 / N67 (standard)

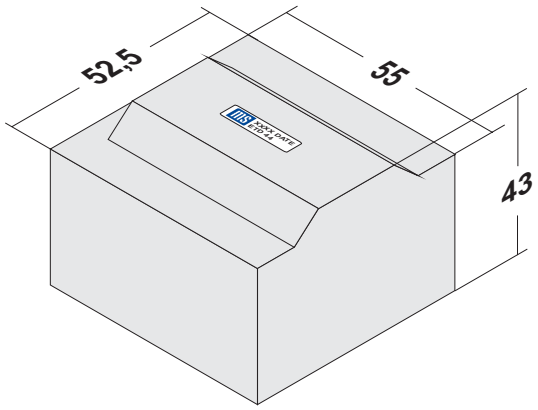
frequency	flyback	forward	push-pull
25 kHz	150 VA	175 VA	300 VA
50 kHz	220 VA	275 VA	400 VA
100 kHz	340 VA	400 VA	600 VA

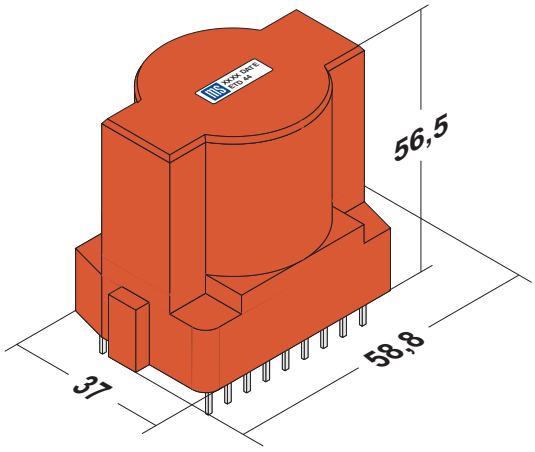
- application as SMPS, open or impregnated
- application also as storage choke
- custom-built development for switching frequencies from 20 kHz - 300 kHz (500 kHz) on your application, also for multiple output voltages
- construction for safety electrical disconnection satisfying EN 61558-2-17 (VDE 0570 part 2-17) respectively EN 60950 respectively EN 60065 or IEC 601
- optional: UL-insulating system class B for impregnated transformer
- ferrite components N 27, N 67, N 87 or N 97
- also until ta 105°C and class F (155°C) as special version possible
- possible winding technique: copper wire and/or HF stranded wire in class F (155°C) copper foil winding, polyimid insulated wires (3-times bandage)

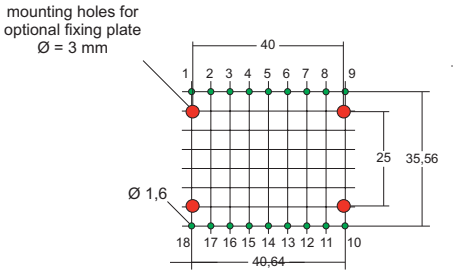
Manfred Schmelzer GmbH
Waidplatzstrasse 6-8 · D-79331 Teningen-Nimburg
phone: +49 76 63 / 94 47 -0 · fax: +49 76 63 / 94 47 -50
info@ms-transformers.de
www.ms-transformers.de

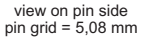
type ETD 44 potted

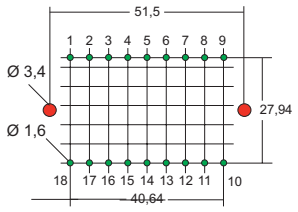
150 ... 600 VA











ETD 44

maximum power as flyback-, forward- or push-pull working type
guide number on practical experience and computer based model calculations
power table is for ta 40°C / B, impregnated with N27 / N67 (standard)

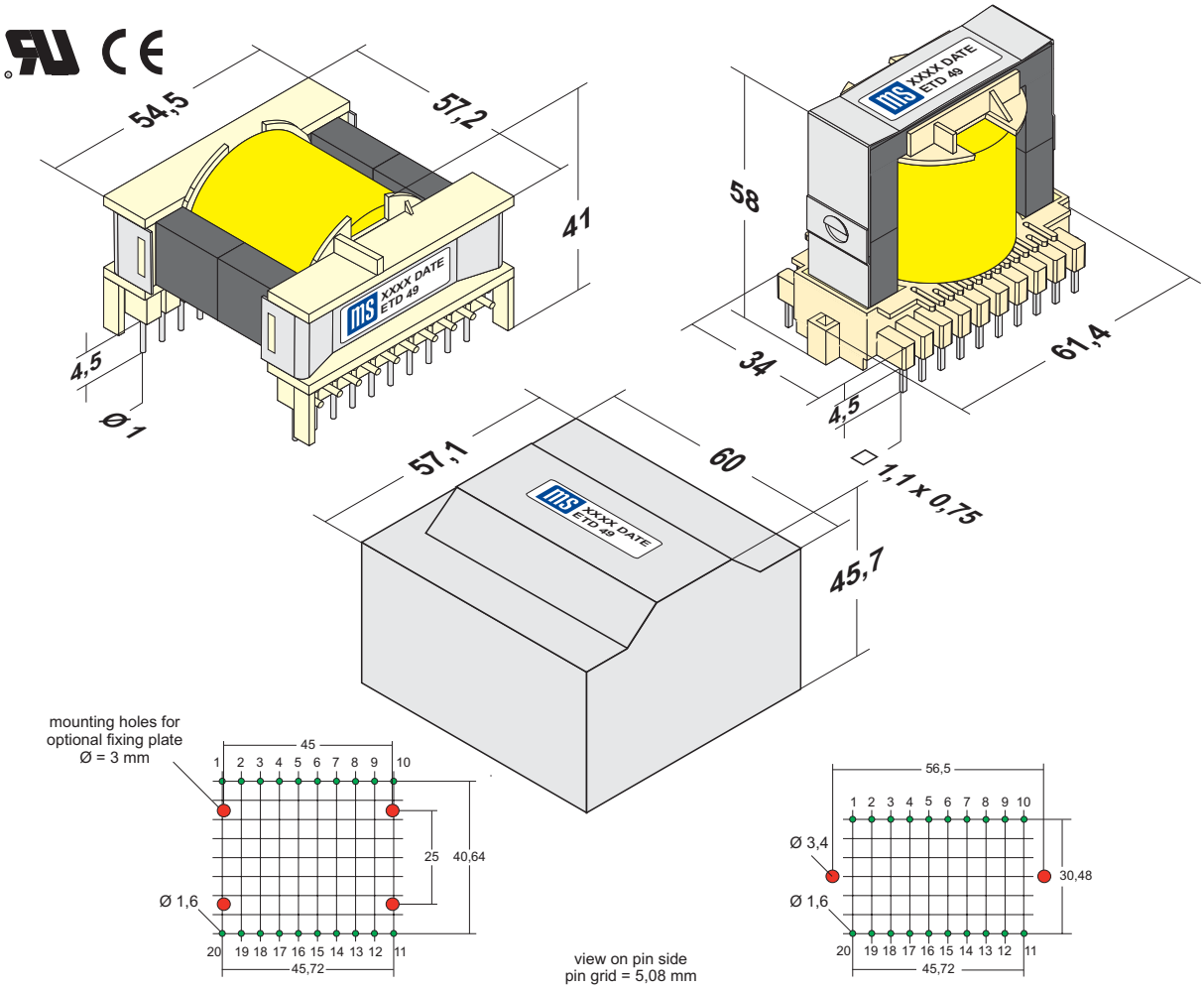
frequency	flyback	forward	push-pull
25 kHz	150 VA	175 VA	300 VA
50 kHz	220 VA	275 VA	400 VA
100 kHz	340 VA	400 VA	600 VA

- application as SMPS potted
- application also as storage choke
- custom-built development for switching frequencies from 20 kHz - 300 kHz (500 kHz) on your application, also for multiple output voltages
- construction for safety electrical disconnection satisfying EN 61558-2-17 (VDE 0570 part 2-17) respectively EN 60950 respectively EN 60065 or IEC 601
- optional: UL-insulating system class B for potted transformer
- ferrite components N 27, N 67, N 87 or N 97
- also until ta 105°C and class F (155°C) as special version possible
- possible winding technique: copper wire and/or HF stranded wire in class F (155°C)
  copper foil winding, polyimid insulated wires (3-times bandage)

Manfred Schmelzer GmbH
Waidplatzstrasse 6-8 · D-79331 Teningen-Nimburg
phone: +49 76 63 / 94 47 -0 · fax: +49 76 63 / 94 47 -50
info@ms-transformers.de
www.ms-transformers.de

type ETD 49

175 ... 725 VA



ETD 49

maximum power as flyback-, forward- or push-pull working type
guide number on practical experience and computer based model calculations
power table is for ta 40°C / B, impregnated with N27 / N67 (standard)

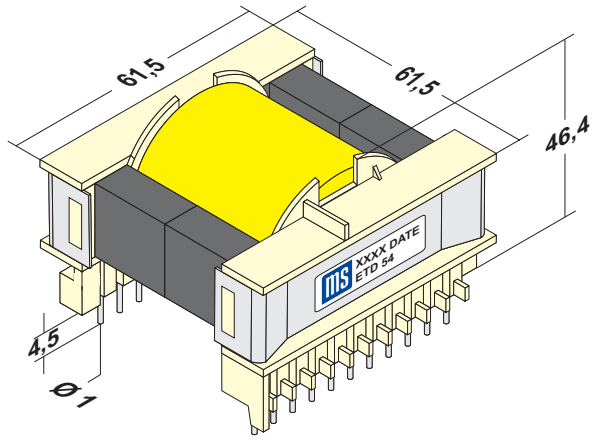
frequency	flyback	forward	push-pull
25 kHz	175 VA	215 VA	375 VA
50 kHz	275 VA	350 VA	520 VA
100 kHz	400 VA	500 VA	725 VA

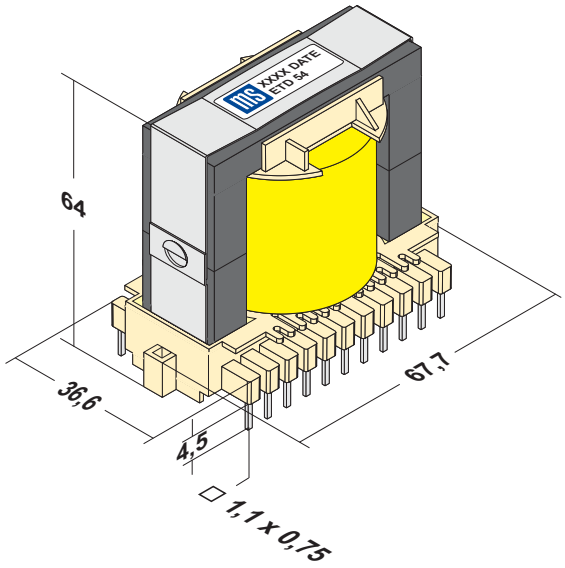
- application as SMPS, open, impreganted or potted
- application also as storage choke
- custom-built development for switching frequencies from 20 kHz - 300 kHz (500 kHz) on your application, also for multiple output voltages
- construction for safety electrical disconnection satisfying EN 61558-2-17 (VDE 0570 part 2-17) respectively EN 60950 respectively EN 60065 or IEC 601
- optional: UL-insulating system class B for impregnated or potted transformer
- ferrite components N 27, N 67, N 87 or N 97
- also until ta 105°C and class F (155°C) as special version possible
- possible winding technique: copper wire and/or HF stranded wire in class F (155°C)
  copper foil winding, polyimid insulated wires (3-times bandage)

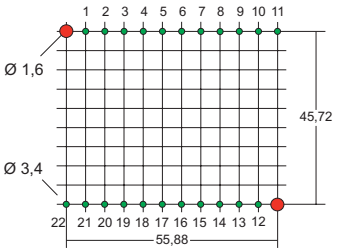
Manfred Schmelzer GmbH
Waidplatzstrasse 6-8 · D-79331 Teningen-Nimburg
phone: +49 76 63 / 94 47 -0 · fax: +49 76 63 / 94 47 -50
info@ms-transformers.de
www.ms-transformers.de

type ETD 54

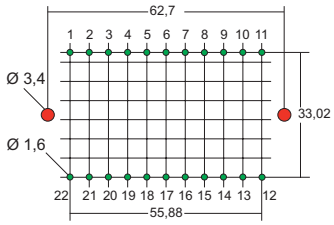
265 ... 1050 VA







view on pin side
pin grid = 5,08 mm



ETD 54

maximum power as flyback-, forward- or push-pull working type
guide number on practical experience and computer based model calculations
power table is for ta 40°C / B, impregnated with N27 / N67 (standard)

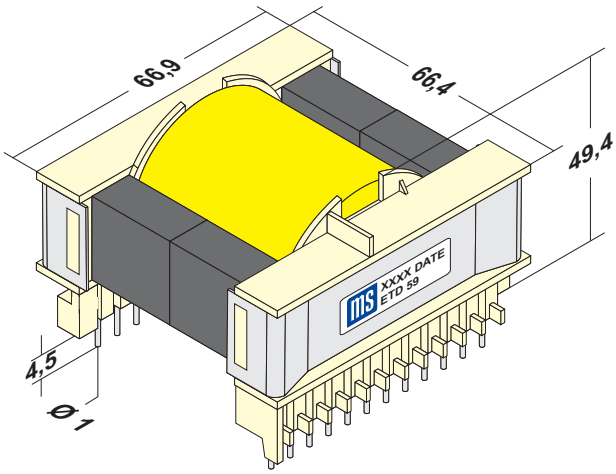
frequency	flyback	forward	push-pull
25 kHz	265 VA	320 VA	565 VA
50 kHz	400 VA	525 VA	775 VA
100 kHz	----- VA	750 VA	1050 VA

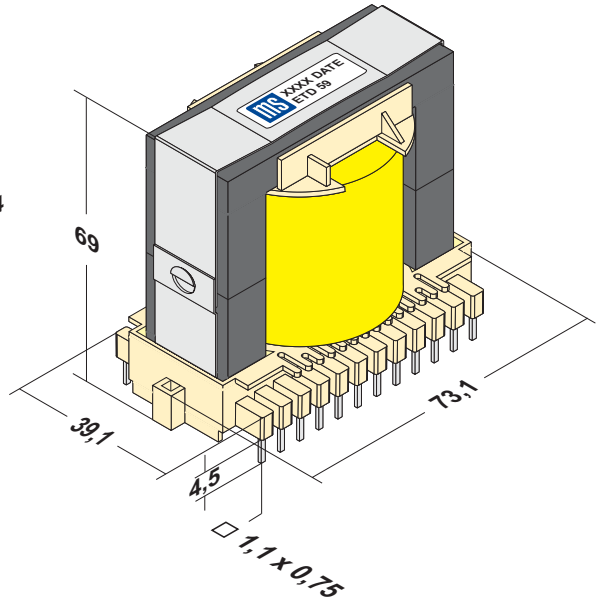
- application as SMPS, open, impregnated or potted
- application also as storage choke
- custom-built development for switching frequencies from 20 kHz - 300 kHz (500 kHz) on your application, also for multiple output voltages
- construction for safety electrical disconnection satisfying EN 61558-2-17 (VDE 0570 part 2-17) respectively EN 60950 respectively EN 60065 or IEC 601
- optional: UL-insulating system class B for impregnated transformer
- ferrite components N 27, N 67, N 87 or N 97
- also until ta 105°C and class F (155°C) as special version possible
- possible winding technique: copper wire and/or HF stranded wire in class F (155°C)
  copper foil winding, polyimid insulated wires (3-times bandage)

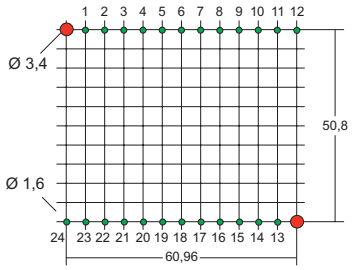
Manfred Schmelzer GmbH
Waidplatzstrasse 6-8 · D-79331 Teningen-Nimburg
phone: +49 76 63 / 94 47 -0 · fax: +49 76 63 / 94 47 -50
info@ms-transformers.de
www.ms-transformers.de

type ETD 59

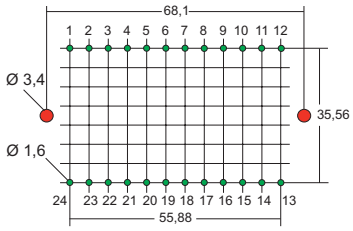
400 ... 1750 VA







view on pin side
pin grid = 5,08 mm



ETD 59

maximum power as flyback-, forward- or push-pull working type
guide number on practical experience and computer based model calculations
power table is for ta 40°C / B, impregnated with N27 / N67 (standard)

frequency	flyback	forward	push-pull
25 kHz	400 VA	530 VA	950 VA
50 kHz	----- VA	880 VA	1300 VA
100 kHz	----- VA	1250 VA	1750 VA

- application as SMPS, open or impregnated
- application also as storage choke
- custom-built development for switching frequencies from 20 kHz - 300 kHz (500 kHz) on your application, also for multiple output voltages
- construction for safety electrical disconnection satisfying EN 61558-2-17 (VDE 0570 part 2-17) respectively EN 60950 respectively EN 60065 or IEC 601
- optional: UL-insulating system class B for impregnted transformer
- ferrite components N 27, N 67, N 87 or N 97
- also until ta 105°C and class F (155°C) as special version possible
- possible winding technique: copper wire and/or HF stranded wire in class F (155°C)
  copper foil winding, polyimid insulated wires (3-times bandage)

Manfred Schmelzer GmbH
Waidplatzstrasse 6-8 · D-79331 Teningen-Nimburg
phone: +49 76 63 / 94 47 -0 · fax: +49 76 63 / 94 47 -50
info@ms-transformers.de
www.ms-transformers.de