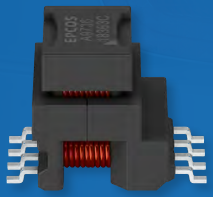


TDK

Sample Kit

SMT Isolated Transformers

E13 EMHV Series –
B78308A*A003



www.tdk-electronics.tdk.com

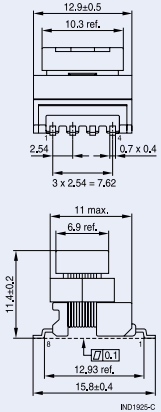
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Auxiliary Gate Drive Transformers – E13 Core (SMT)

Turns ratio	Np : Ns	1 : 0.22 : 0.78	1 : 0.33 : 0.67	1 : 1.07	1 : 1.07	1 : 1 : 0.57 : 2.14
L_{min}	µH	4.1	4.1	>100	>90	>90
C_p N1/N2	pF	-	-	9	2	6
$R_{DC, N1}$	mΩ	75	75	260	260	175
E*dtN1 (max, unipolar/bipolar)	µVs	-	-	15/30	15/30	25/50
Ordering code	B78308*	A2461A003	A2462A003	A2387A003	A2484A003	A2485A003

Technical data

- All values measured at +25 °C ambient temperature
- Frequency range: 100 ... 500 kHz (typ.)
- Operating temperature range: -40 °C ... +150 °C
- High voltage test AC N1/N2: 3000 V AC (50 Hz, 1 s)
- Partial discharge inception voltage N1/N2: >1500 V peak (type test)
- Partial discharge extinction voltage N1/N2: >1200 V peak (type test)
- PRI/SEC (cumulative): creepage 11.2 mm, clearance 8.14 mm
- Core/Top surface: creepage & clearance 3.25 mm
- PRI/core: creepage 7.5 mm, clearance 5.1 mm
- SEC/core: creepage 3.7 mm, clearance 3.05 mm
- Insulation distances sufficient for basic insulation according to IEC 60664-1, 61558-2-16 for working voltage 1000 V DC, transient over voltage 2500 V_{Peak}, P2, CTI IIIa, 5000 m altitude
- Insulation distances sufficient for reinforced insulation according to IEC 60664-1, 61558-2-16 for working voltage 300 V, P2, OVC II, CTI IIIa, 2000 m altitude
- Tape and reel packing: 44 mm blister tape, 330 mm reel
- Packing units: 190 pcs./reel



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P302031 B78308A2461A003	P302098 B78308A2462A003	P301085 B78308A2387A003	P302525 B78308A2484A003	P303085 B78308A2485A003

Important information: It is incumbent on the customer to check and decide whether a product is suitable for use in a particular application. Our products are described in *utions and warnings* must be observed. All relevant information is available through our sales offices.

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