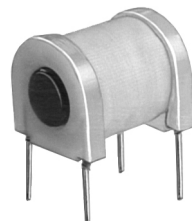


Through Hole Transformers Trigger, SCR Isolation



ELECTRICAL SPECIFICATIONS

Primary Inductance Values: From 200 μH to 5000 μH

Turns Ratio: 1:1, 2:1 and 5:1

Temperature Range: - 55 °C to + 105 °C

Dielectric Test at 60 Hz: 1600 V_{RMS} (Windings to core)

AC Line Voltage at 60 Hz: 240 V_{RMS} maximum in test circuits shown

FEATURES

- Designed for low-cost trigger source isolation in SCR power control circuits
- Small physical size and low profile provide packaging advantages
- Designed to transfer high amplitude or long duration pulses without saturation
- Industrial and commercial applications include motor speed controls, lighting controls and heater controls
- Interchangeable. Designed for circuit board mounting using same mounting dimensions as 11Z and PT-20 models
- Compliant to RoHS directive 2002/95/EC



RoHS
COMPLIANT

MATERIAL SPECIFICATIONS

Bobbin: Glass-filled nylon

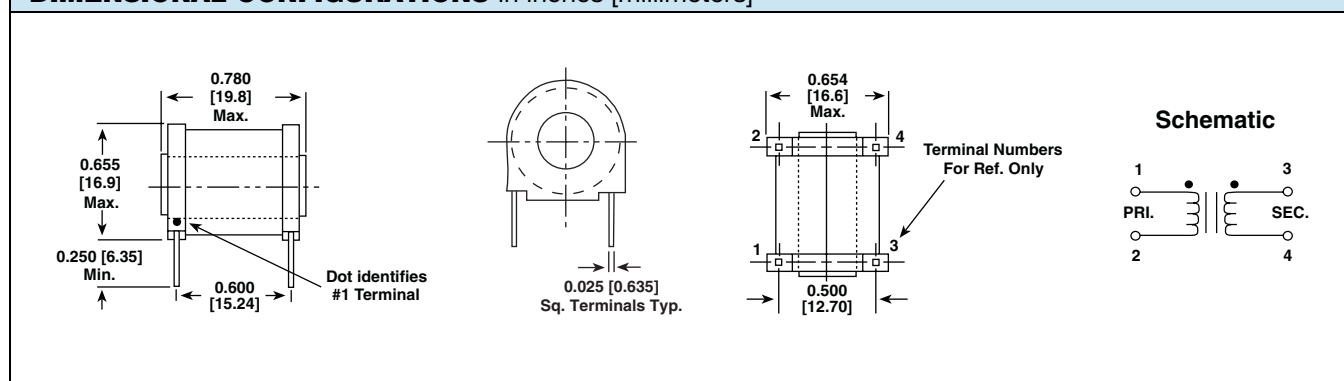
Terminals: 0.025" [0.635] square tinned copper

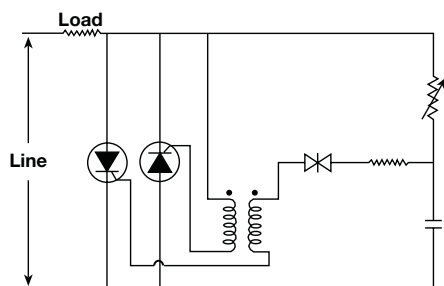
Material Rating: + 105 °C class A

STANDARD ELECTRICAL SPECIFICATIONS

MODEL	TURNS RATIO	PRIMARY IND. MIN. (μH)	LEAKAGE IND. MAX. (μH)	INTERWINDING CAPACITY MAX. (pF)	PRIMARY DCR MAX. (Ω)	SECONDARY DCR MAX. (Ω)	UNIPOLAR ET ($V\text{-}\mu\text{s}$)
PT-50-101	1:1 $\pm$ 10 %	200	3	3	1.5	1.5	570
PT-50-102	1:1 $\pm$ 10 %	500	6	6	4.5	4.5	912
PT-50-103	1:1 $\pm$ 10 %	1000	12	12	8.0	8.0	1283
PT-50-104	1:1 $\pm$ 10 %	2000	13	13	12.0	12.0	1853
PT-50-105	1:1 $\pm$ 10 %	5000	15	15	18.4	18.4	2850
PT-50-106	2:1 $\pm$ 10 %	500	6	6	4.0	2.0	912
PT-50-107	2:1 $\pm$ 10 %	1000	10	10	10.0	2.0	1288
PT-50-108	2:1 $\pm$ 10 %	2000	12	12	10.0	5.0	1881
PT-50-109	2:1 $\pm$ 10 %	5000	15	15	18.0	10.0	2565
PT-50-110	5:1 $\pm$ 10 %	5000	1500	1500	19.0	3.0	2850

DIMENSIONAL CONFIGURATIONS in inches [millimeters]



CIRCUIT DIAGRAM

Transformer Coupled Breakdown Diode Triggering Circuit

PART MARKING

- Vishay Dale
- Model
- Dash number

ORDERING INFORMATION

PT-50

MODEL

101

DASH NUMBER

EB

PACKAGE CODE

e2

JEDEC LEAD (Pb)-FREE
STANDARD**GLOBAL PART NUMBER**

P	T	0	5	0
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MODEL

E	B
---	---

PACKAGE CODE

1	0	1
---	---	---

DASH NUMBER



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