



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 RoHS 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

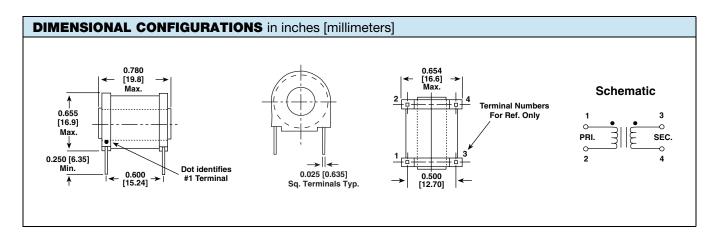
MATERIAL SPECIFICATIONS

Bobbin: Glass-filled nylon

Terminals: 0.025" [0.635] square tinned copper

Material Rating: + 105 °C class A

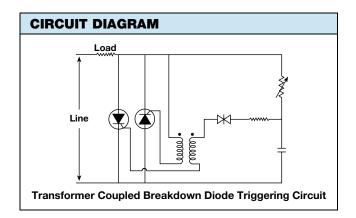
STANDARD ELECTRICAL SPECIFICATIONS								
MODEL	TURNS RATIO	PRIMARY IND. MIN. (µH)	LEAKAGE IND. MAX. (μΗ)	INTERWINDING CAPACITY MAX. (pF)	PRIMARY DCR MAX. (Ω)	SECONDARY DCR MAX. (Ω)	UNIPOLAR ET (V-µs)	
PT-50-101	1:1 ± 10 %	200	3	3	1.5	1.5	570	
PT-50-102	1:1 ± 10 %	500	6	6	4.5	4.5	912	
PT-50-103	1:1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

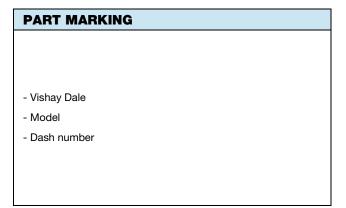


Vishay Dale

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ORDERING INFORMATION						
PT-50	101	ЕВ	e2			
MODEL	DASH NUMBER	PACKAGE CODE	JEDEC LEAD (Pb)-FREE STANDARD			

GLOBAL PART NUMBER							
P T 0 5 0	ЕВ	1 0 1					
MODEL	PACKAGE CODE	DASH NUMBER					

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Vishay

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PT050BJ101 PT050BJ102 PT050BJ212 PT050BJ201