

ANTREX Electronics

Electronic Components Sourcing Information

Product Reference Information

Part Number: GDT225E-60-T1-BX
Manufacturer: Bourns Inc.
Package: Box
Availability: Please confirm with sales

Product Page:

<https://antrexco.com/product/details/bourns-inc/gdt225e-60-t1-bx.html>

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Contact Information

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Quality & Trust

New & Original Components

Supplier verification and packaging condition review

CoC / RoHS / REACH documents available on request

Secure sourcing support for OEM / EMS projects

Note:

This PDF includes an ANTREX product reference cover page.

The original manufacturer datasheet follows from the next page.



Features

- Fast response time
- Wide temperature range
- High surge current rating
- Low capacitance and insertion loss
- Stable performance throughout life
- Small surface mount package
- RoHS compliant*

Applications

- Surge Protective Devices (SPDs)
- Power systems
- Industrial equipment

GDT225E Series - High Energy Gas Discharge Tube Arrestor

General Information

The Model GDT225E Series are UL recognized GDT devices rated at 80 kA maximum on an 8/20 μ s waveform, providing a volume and space-saving solution for high density and space-restricted applications. This device is available in various lead shapes to fit a variety of configuration requirements.

Product Characteristics

Storage Temperature Range	-55 °C to +105 °C
Operating Temperature Range	-55 °C to +105 °C
Climate Category (IEC 60068-1)	55 / 105 / 21
Moisture Sensitivity Level (MSL)	1
ESD Classification - HBM	N/A

How to Order

	GDT 2 25 E - xx - A - BX
Description	GDT = Gas Discharge Tube - Next-Generation Series
Electrodes	2 = 2-Electrode
Size	25 = 25 mm Diameter
Sub-series Designator	E = High Energy GDT
Voltage	50 = 500 V 60 = 600 V 80 = 800 V
Terminal Designator**	A = Leadless (Standard) T1 = Two Side Terminals T2 = Parallel Terminals
Packaging Options	BX = Box (Standard)

**Special terminals upon request

BOURNS®

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www.bourns.com



WARNING Cancer and Reproductive Harm - www.P65Warnings.ca.gov

*RoHS Directive 2015/863, Mar 31, 2015 and Annex.

Specifications are subject to change without notice.

Users should verify actual device performance in their specific applications.

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Additional Information

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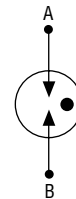


[CONTACT](#)

Agency Recognition

Agency	Category	Agency File No.
UL	1449-4	E313168

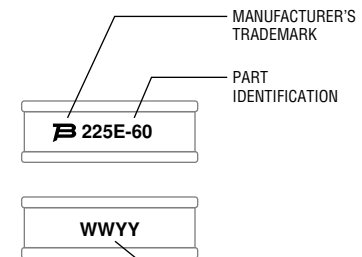
Circuit Diagram



Note: Gas discharge tubes are bidirectional and non-polarized.

Typical Part Marking

Represents total content. Layout may vary.



DATE CODE:
WEEK AND YEAR
OF MANUFACTURE
• WEEK (01 - 52)
• YEAR (LAST TWO DIGITS)
EXAMPLE:
2023 = WEEK 20, YEAR 2023

Packaging Specifications

Model	Quantity per Box
GDT225E-xx-A	160
GDT225E-xx-T1	160
GDT225E-xx-T2	160

GDT225E Series - High Energy Gas Discharge Tube Arrestor

BOURNS®

Electrical Characteristics

Test Methods per ITU-T K.12, IEEE C62.31 and IEC 61643-311 GDT standards.

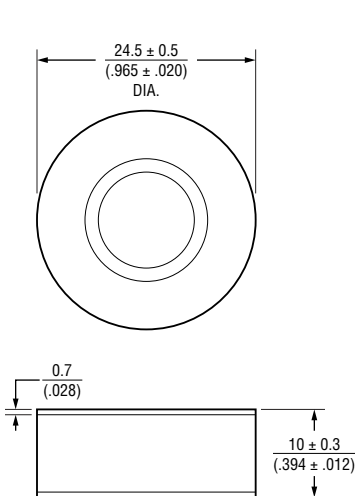
Bourns Part No.	Device Specifications									
	DC Breakdown Voltage ±20 %	Maximum Impulse Breakdown Voltage	Maximum Impulse Discharge Current (8/20 μ s)		Maximum Impulse Discharge Current (10/350 μ s)	TOV 1200 V 0.2 S	Maximum Follow-On Current @ 50/60 Hz	MCOV @ 50/60 Hz	Minimum Insulation Resistance ¹	Breakdown Time
	100~2000 V/s	1.2/50 μ s 6 kV	1 time	10 times	1 time					
GDT225E-50	500 V	1300 V	80 kA	60 kA	30 kA	300 A	100 A	255 V	1 G Ω	<100 ns
GDT225E-60	600 V	1400 V								
GDT225E-80	800 V	1500 V								

Notes:

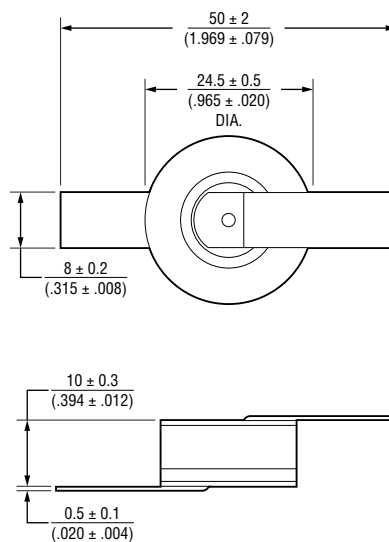
- (1) IR Test Voltage: 250 V.
- At delivery AQL 0.65 Level II, DIN ISO 2859.
- DC and Impulse Sparkover values are in ionized mode @ 25 °C.
- Bourns recommends reflowing surface mount devices per IPC/JEDEC J-STD-020 rev. D.
- Impulse Sparkover voltage is expressed as a maximum value, with a 99 % probability of measured values within limit.
- IR limits after Life Ratings > 100 M Ω .
- Network applied (per *ITU-T K.12 Edition 9.0, Section 7*).
- DC Sparkover Voltage limits after Life Ratings may exceed +20 % but will continue to protect without venting (per *ITU-T K.12 Edition 9.0, Section 6*, where applicable).

Product Dimensions

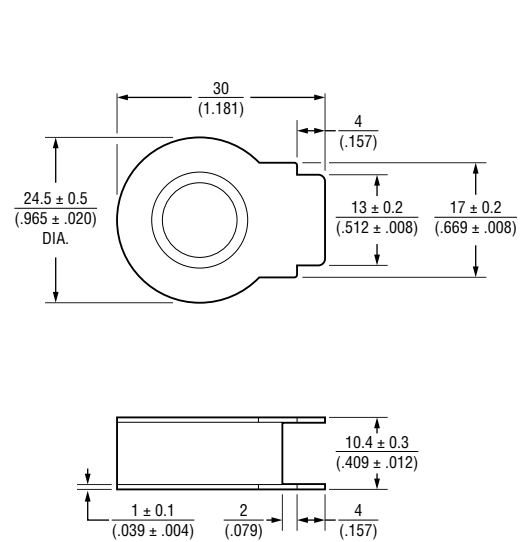
GDT225E-xx-A



GDT225E-xx-T1



GDT225E-xx-T2



DIMENSIONS: $\frac{\text{MM}}{\text{(INCHES)}}$

REV. 6 04/25

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