

*RoHS COMPLIANT



SANKOSHA

Gas Discharge Tube 2PY05 Series

- SANKOSHA® 2PY05 Series is a compact bipolar GDT designed for board-level surge protection. Featuring a 60 V DC breakdown voltage and low capacitance of 1.0 pF, it provides reliable protection while maintaining signal integrity.
- The device withstands surge currents of 3 kA (8/20 μ s, 10 times) and 5 kA (8/20 μ s, 1 time). With compact dimensions of $\Phi 4.7 \times 6$ mm, it enables easy integration into modern electronic assemblies.
- The product is tested in accordance with IEC 61936. Additional higher-voltage models (75B, 90B) are available. RoHS and UL certification status varies by model.

Features	Applications
$\Phi 4.7 \times 6$ mm	Cable Telephony Products
UL 497B Recognized	Modems/Cable Modems
High Surge Current Rating	Broadband/CATV/Coaxial Protectors
RoHS Compliant	xDSL Modems and Peripherals
ISO 9001 and ISO 14001 Certified	Building Entry/Outside Plant
Low Capacitance ≤ 1 pF	Transient Voltage Surge Suppression (TVSS)

Characteristics

Characteristics	Product Name		
	2PY05-60B50 (*)	2PY05-75B50	2PY05-350B50
DC Sparkover @ 100 V/s	51-72V	75V $\pm$ 20%	350V $\pm$ 20%
Impulse Sparkover 100V/ μ s 1kV/ μ s	- ≤ 600 V	- ≤ 600 V	≤ 650 V ≤ 750 V

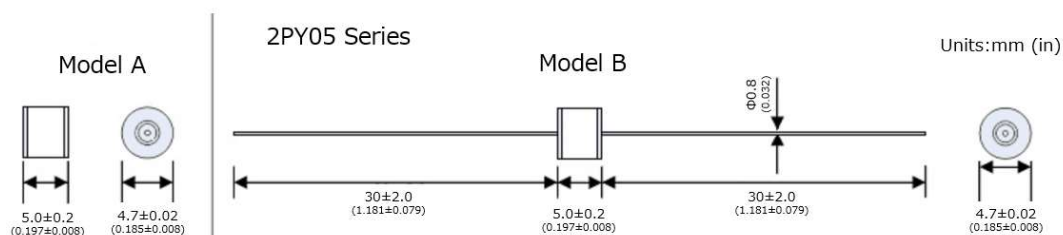
*This model is not listed on UL

Common Specifications

Insulation Resistance (60B50, 75B50)	DC50	$\geq 1,000$ M Ω
Insulation Resistance (350B50)	DC100V	$\geq 10,000$ M Ω
Capacitance	1MHz	≤ 1.0 pf
Holdover Voltage	52/135V, ITU-T K. 12	≤ 150 ms
AC Discharge Current (60B50, 75B50)	50Hz, 1sec, 5A	5times
AC Discharge Current (350B50)	50Hz, 1sec, 5A	10times
Impulse Discharge Current (60B50)	8/20 μ s 3kA	10times
Impulse Discharge Current (60B50)	8/20 μ s 5kA	1time
Impulse Discharge Current (75B50, 350B50)	8/20 μ s 5kA	10times
Impulse Life (60B50)	10/1000 μ s 10A	300times
Impulse Life (75B50, 350B50)	10/1000 μ s 100A	300times
Operation and Storage Temperature	...	-40~90°C
Operation and Storage Humidity	...	$\leq 90\%$

Product Dimensions (mm/[inches])

Product Dimensions



Packaging Specifications

Quantity per tray:200pcs

Legal Disclaimer Notice

This legal disclaimer applies to all purchasers and users of Sankosha® products manufactured by or on behalf of Sankosha Corporation and its affiliated entities (collectively, "Sankosha"). Except where otherwise expressly stated in writing, Sankosha® products, specifications, and related documentation, including data sheets, may be revised or updated without prior notice. Users should always confirm that they have obtained the most current and complete information available before ordering Sankosha® products.

All product characteristics, specifications, and performance parameters described in Sankosha® data sheets are determined under controlled laboratory conditions. Statements regarding product suitability for particular applications are based on Sankosha's understanding of typical requirements for general use cases. Actual performance in a specific customer application may differ due to factors such as the combination of Sankosha® products with other components, as well as the operating environment and conditions of the end application. Performance may vary between applications, and product behavior may change over time. Users are responsible for independently evaluating Sankosha® products in their own systems and for determining appropriate design margins to account for differences between laboratory testing and real-world operating conditions.

Unless Sankosha has specifically designated a product as meeting the requirements of a particular industry standard (for example, IATF 16949) or qualification (such as UL listing or recognition), Sankosha makes no representation or responsibility regarding compliance with such standards. Ensuring that devices and applications meet all applicable safety-related requirements and regulations remains solely the responsibility of the user.

Sankosha® products are not recommended, authorized, or intended for use in nuclear facilities, life-support systems, life-critical or life-sustaining applications, or in any application where failure could lead to personal injury, loss of life, or significant property or environmental damage. Use of Sankosha® products in such applications is entirely at the user's risk unless expressly approved in writing, on a case-by-case basis, by two authorized representatives of Sankosha. Life-critical applications include medical devices classified by the U.S. Food and Drug Administration as Class III devices, as well as equivalent classifications outside the United States.

Sankosha identifies those standard products that may be appropriate for automotive applications within the "Applications" section of the relevant data sheets. Use of any other Sankosha® standard products in automotive applications is not recommended unless specifically approved in writing by two authorized Sankosha representatives. References to compliance with AEC-Q standards or "automotive grade" do not, by themselves, constitute approval for use in automotive environments.

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USA Distributor (Lumimax Optoelectronic Technology): <https://lumimaxusa.com>

※2PY05 Series is referable to Y05 series.

