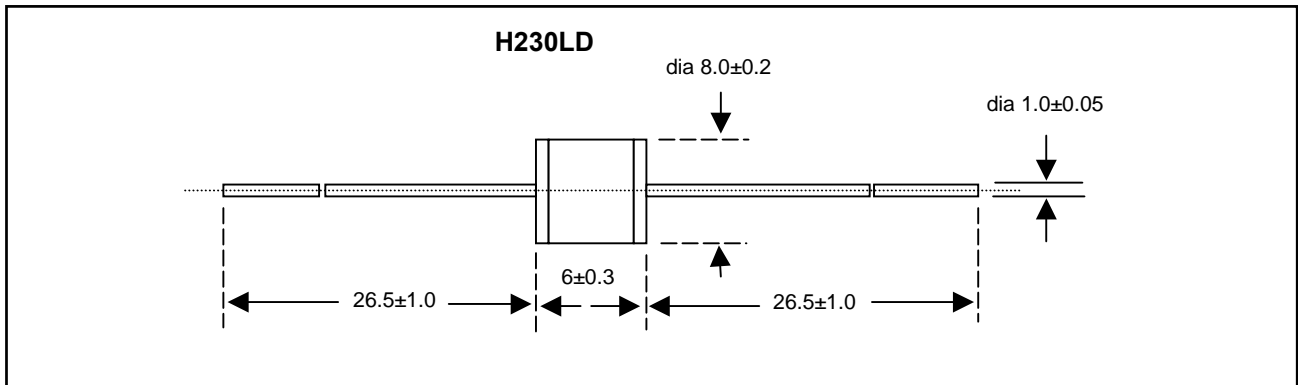


HAKEL GAS DISCHARGE TUBES - SALIENT FEATURES

- * Stable breakdown voltage
- * High insulation resistance; enables the use in high temperature and humidity
- * Small capacitance; minimises transmission loss and noise even with high frequency range
- * High durability against surges and fast restorability
- * Long life
- * Free of radioactive substance
- * Inexpensive for superior performance
- * High mechanical strength prevents leak and breakdown from strong shock
- * Various types available



2 TERMINAL CERAMIC TYPE GD TUBE - H230LD			
Type	Description	Test Condition	Specification
ELECTRICAL CHARACTERISTICS, Test Methods as per ITU-T (CCITT) K.12			
1	D.C Spark-Over Voltage	100V/Sec	230 ±20%
2	Impulse Spark-Over Voltage	100V/μsec	<500V
3	Impulse Spark-Over Voltage	1000V/μsec	<650V
4	Insulation Resistance	100V	>10 ¹⁰ Ohm
5	Glow Voltage	10mA	< 70V
6	Arc Voltage	2A	< 10V
7	Capacitance	1 M Hz	< 1 pF
8	DC Holdover Voltage	135V	<150ms
9	Impulse Discharge Current	20000 A, 8/20μsec 100 A, 10/700μsec 100 A, 10/1000μsec	10 Operations 500 Operations 300 Operations
10	Alternating Discharge Current	20 A r.m.s, 1 sec	10 Operations

NOTES:

1. All dimensions are in mm
2. Electrodes are nickel plated where as all lead terminals are Tin plated.
3. Marking on the GD Tube
 - H230LD
 - H : Dimension
 - 230 : 230 Volts
 - L : With leads
 - D : Current rating 20A/20kA
 - HAKEL : Manufacturer
 - MM : Month of manufacture
 - YY : Year of manufacture
4. The above model is available with lead diameter 0.8 ±0.05 mm
5. The above model in same dimensions is also available with current rating 10A/10kA and 5A/5kA, named as H230LE and H230LB respectively
6. All the three models are also available without leads , named as H230D,H230E AND H230B
7. Blister Packing