



Gas Discharge Tubes

RL600Q-3012 Series

Gas Discharge Tubes - RL600Q-3012 Series

GDT introduction: Gas discharge tubes (GDT) use noble gasses enclosed in ceramic tubes to provide an alternate circuit path for voltage spikes. The ceramic envelope and with nickel connectors allow for high loads and Ruilon offers products that function at 20KA, 40KA, 50KA, 60KA, 100KA & 150KA. The breakdown voltages of the devices have a wide range (up to 20% tolerance). Major applications are high frequency telecommunication lines, stations, security systems, HID and high quality Surge Protection Devices (SPD).



Features

1. Very small size
2. Suitable for direct strikes
3. Very fast response time
4. Stable performance over life
5. High insulation resistance
6. RoHS compatible

Recommended Applications

1. AC power lines N-PE applications
2. Class I requirements

Electrical specifications

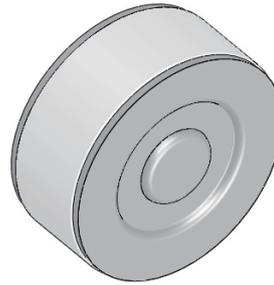
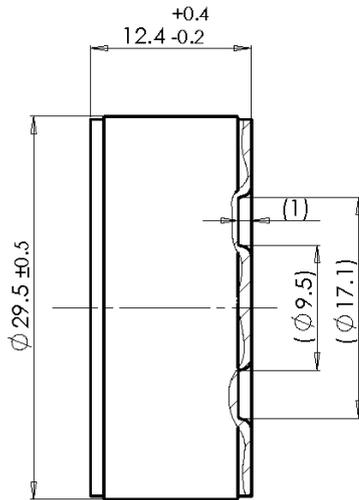
Series/Type:	RL600Q-3012			
	3012A	3012B	3012C	
DC spark-over voltage 1) 2)	> 600	> 600	> 600	V
Front of wave spark-over voltage at 1.2/50 μ s, 6 kV	< 1500	< 1500	< 1500	V
Breakdown time typical value	< 100	< 100	< 100	ns
	< 20	< 50	< 20	ns
Insulation resistance at 100 VDC	> 1	> 1	> 1	G Ω
Class I according to EN 61643-11				
Max. continuous operating voltage at 50/60 Hz U _c	255	264	255	V
Nominal discharge current 8/20 μ s I _n	150	50	50	kA
Impulse current 10/350 μ s I _{imp}	50	50	50	kA
Follow current at 50/60 Hz I _f	100	100	100	A
AC discharge current (TOV 3)) 1 operation 50 Hz, 0.2 s	300	300	300	A
Weight	~ 35	~ 35	~ 100	g
Operation and storage temperature	-40 ... +90	-40 ... +90	-40 ... +90	°C
Climatic category (IEC 60068-1)	40/ 90/ 21	40/ 90/ 21	40/ 90/ 21	40/ 90/ 21

1. At delivery AQL 0.65 level II, DIN ISO 2859
2. In darkness w/o storage
3. TOV – Temporary over voltage

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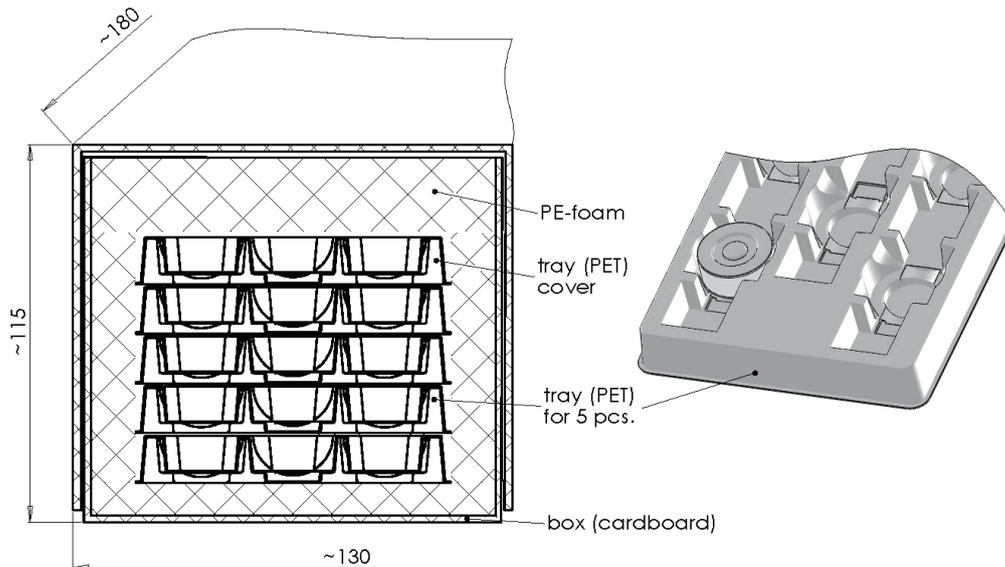
RL600G-3012A Series Dimension

Unit:mm



nickel-plated

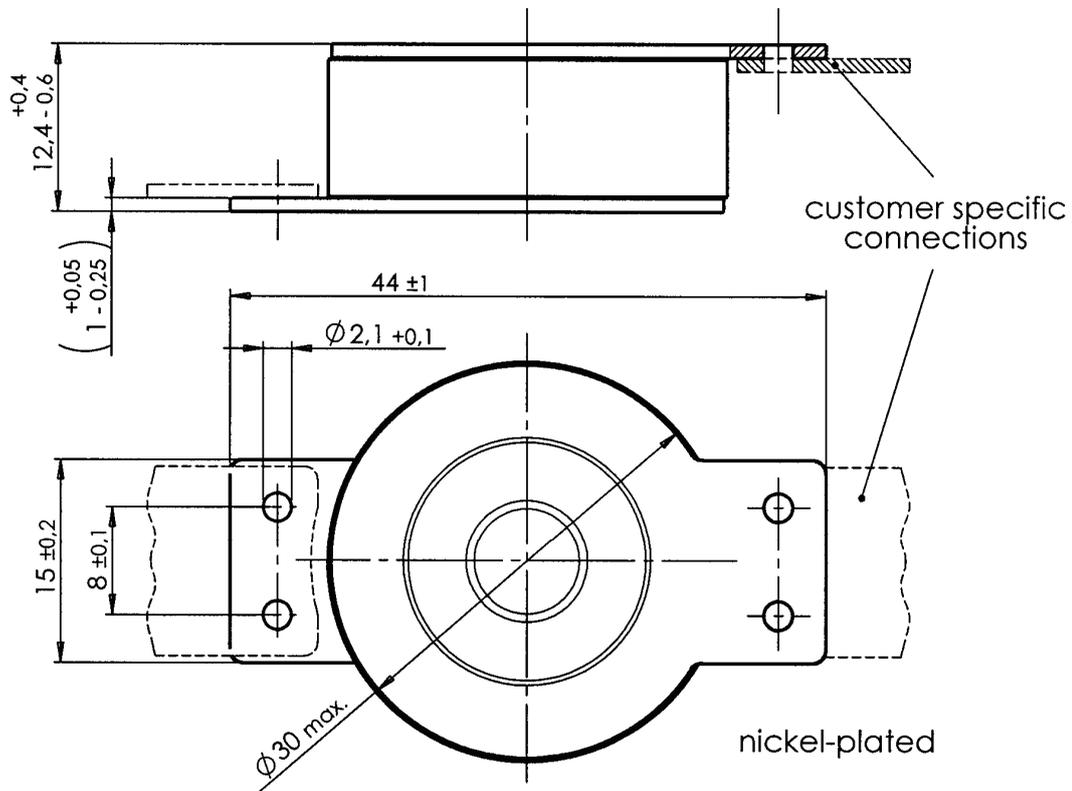
Ordering code and packing advice
RL600G-3012= 20 pcs. on trays



Gas Discharge Tubes - RL600Q-3012 Series

RL600G-3012B Series Dimension

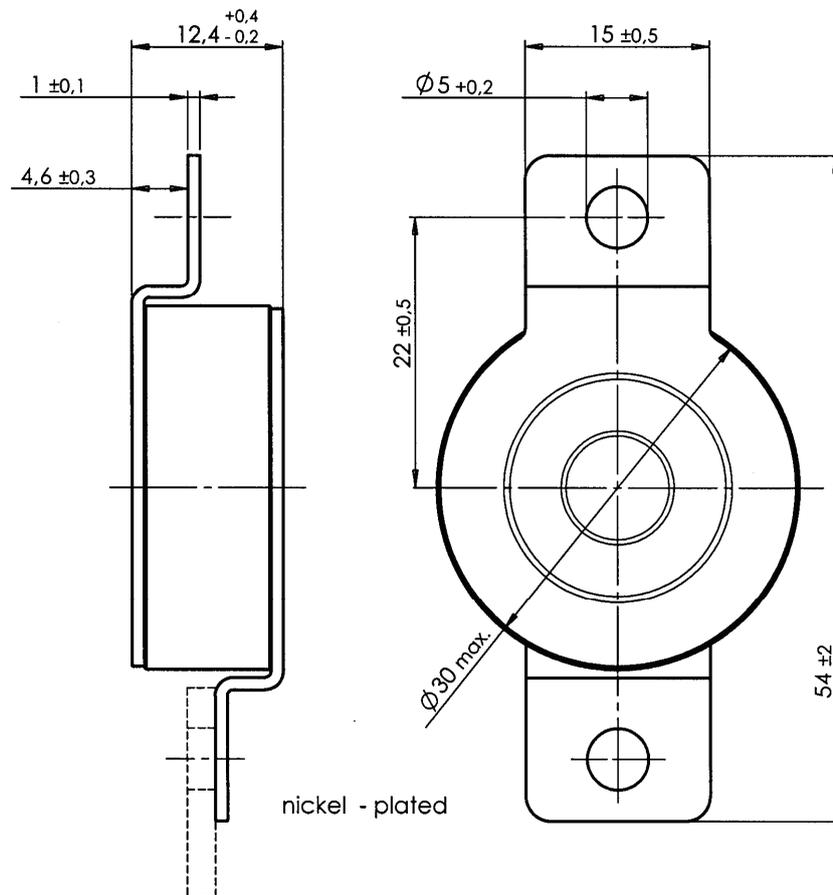
Unit:mm



Gas Discharge Tubes - RL600Q-3012 Series

RL600G-3012C Series Dimension

Unit:mm



Warehouse Storage Conditions of Products

- Storage Conditions:
 1. Storage Temperature: $-10^{\circ}\text{C} \sim +40^{\circ}\text{C}$
 2. Relative Humidity: $\leq 75\% \text{RH}$
 3. Keep away from corrosive atmosphere and sunlight.
- Period of Storage: 1 year

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