

DE37系列

DE37 SERIES

通信线路用

For Communication Lines

浪涌吸收器
SURGE ABSORBER

DE37系列是对应5mm引脚间距插装的电源线、通信线路用浪涌吸收器。该系列结构小巧，浪涌耐量达1500A(8/20μsec.)，动作电压范围为300-500V。其中400V的产品符合ADSL POTS*分路器用规格：ITU-T(国际电信联盟 试验规格)K.20或K.21的Basic Test Condition(基本试验条件)，被日本国内许多用户用于局用或家用ADSL分路器，并获得一致好评。

※POTS: Plain Old Telephone Service

The DE37 series surge absorbers have a 5mm pitch and are ideal for power lines and communication networks. This compact device can handle surges of up to 1500A(8/20μsec.) and is available in several voltages ranging from 300V to 500V. The 400V part meets the standard for ADSL POTS* splitters: ITU-T(International Telecommunication Union test standard) K.20 and K.21 Basic Test Condition, and has already received good response from both service providers and home users in ADSL splitters.

特点

- 采用5mm引脚间距的径向编带形状，适合自动插装(元件高度控制在15.5mm以下)。
- 可选用轴向编带(玻璃放电管平放时也可实现自动插装)。
- 1pF以下的低静电容量，不会阻碍兆字节级的高速通信信号。
- 采用微隙方式，浪涌响应特性优异。
- 具有100MΩ以上的高绝缘阻抗特性。

Features

- The 5mm pitch; radial taped parts can be mounted using automatic insertion equipment.
- Also available in axial taping (the glass tube can be mounted flat using automatic insertion equipment).
- Can be used on megabit class high speed without attenuation of signal due a capacitance value of less than 1pF.
- Superior surge response characteristics due to microgap technology.
- High insulation resistance of over 100MΩ.

型号构成 Part number system

DE37 — **401** — **W** — **S** — **00** — **B**

系列名 Series 直流放电开始电压 DC Spark-over voltage(Vs) 直流放电开始电压容许偏差 DC Spark-over voltage tolerance 编带形式 Taping form 编带尺寸 Taping dimensions 包装形式 Packing form

前2位数字表示电压值的有效数字，第3位数字表示乘幂。
The first two digits are significant, and the third is number of zeros.
例) 401表示: 40 × 10¹ = 400V
Ex.) 401 means: 40 × 10¹ = 400V

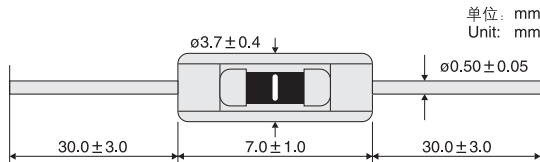
| | |
|---|--------------|
| L | ±15% |
| M | ±20% |
| W | +20% -15% |

| | |
|---|---------------------------|
| A | 轴向(卧式)编带 Axial taping |
| D | 径向(立式)编带 Radial taping |
| S | 无编带 No taping |

| 记号 Symbol | 编带内侧宽度 Taping width | 间距 Pitch |
|--------------|------------------------|-------------|
| 04 | 26 | 12.7 |
| 12 | 26 | 10 |
| 22 | 52 | 10 |
| 00 | 无编带 No taping | |

| | |
|---|--------------------------|
| B | 散装 Bulk pack |
| F | 扁平带装 Flat pack taping |

形状·尺寸 Dimensions



特性 Characteristics

| 系列名 Series | 型号 Part number | 直流放电开始电压 DC spark-over voltage Vs | 绝缘阻抗 Insulation resistance IR | | 静电容量 Electrostatic capacitance 1kHz-6V max. | 浪涌耐量 Surge current capacity 8/20μsec. | AC耐电压 Withstanding Voltage | UL规格认证产品 UL recognized | | |
|---------------|-------------------|---|-------------------------------------|-------------------------------|---|---|-------------------------------|---------------------------|----------------------|--------------|
| | | | 100MΩmin. | DC 100V DC 250V DC 500V | | | | 1pF max. | 1500A (8/20μsec.) | AC1800V-3sec |
| DE37 | DE37-301L | 300V ± 15% | 100MΩmin. | DC 100V | 1pF max. | 1500A (8/20μsec.) | AC1800V-3sec | ○ | | |
| | DE37-351M | 350V ± 20% | | ○ | | | | | | |
| | DE37-401W | 400V (+20%, -15%) | | ○ | | | | | | |
| | DE37-501M | 500V ± 20% | | ○ | | | | | | |
| | DE37-102M | 1,000V ± 20% | | — | | | | | | |
| | DE37-362M | 3,600V ± 20% | | DC 500V | | | | — | ○ 2) | ○ 3) |

新产品

- 1): UL Standard UL 497B File No. E175280(N)
- 2): 若与压敏电阻(AC125V V1mA ≥ 270V 8 Joule Min at 2ms, AC125V V1mA ≥ 470V 15 Joule Min at 2ms)电气串接(导线绕焊、压接、焊接等)即被认可。
Approved if used together with a varistor (AC125V : V1mA ≥ 270V 8 Joule Min at 2ms, AC250V : V1mA ≥ 470V 15 Joule Min at 2ms), electrically connected in series by means such as twist and soldering, staking, welding etc.
- 3): 若与压敏电阻(AC125V V1mA ≥ 270V D ≥ φ5mm, AC250V V1mA ≥ 470V D ≥ φ5mm)电气串接(导线绕焊、压接、焊接等)即被认可。
Approved if used together with a varistor (AC125V : V1mA ≥ 270V, D ≥ φ5mm, AC250V : V1mA ≥ 470V, D ≥ φ5mm), electrically connected in series by means such as twist and soldering, staking, welding etc.

关于ITU-T K.20 Basic Test Condition(基本试验条件)

- 浪涌试验
10/700 μ sec 4kV (25Ω) 5次
- AC感应试验
AC600V (600Ω) 1 sec. 5次
- AC交叉试验
AC230V (10-1000Ω) 15min
但外加AC230V时，DE37-401W未响应。

Basic Conditions for ITU-T K.20

- Surge Test: 10/700μsec, 4kV (25Ω), 5 times.
- AC Induced Test: AC600V (600Ω), 1sec., 5 times.
- AC Cross Test: AC230V(10~1000Ω), 15min.
(however, AC230 is too low for the DE37 to react)