

DE37 是符合 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(8/20 μ sec.)，动作电压范围为 300~4500V。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 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(8/20 μ s) and is available in several voltages ranging from 300V to 4500V. 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）(2700V 以上的品种除外)
- 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，不会阻碍兆位级的高速通信信号
- 采用微隙方式，具有优异的浪涌响应效果
- 具有 100MΩ 以上的高绝缘阻抗特性
- 使用温度范围（一般规格）：-40 ~ 85℃
- 保存温度范围（一般规格）：-55 ~ 125℃

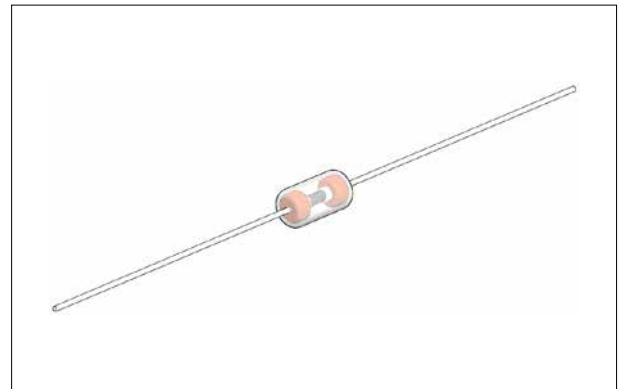
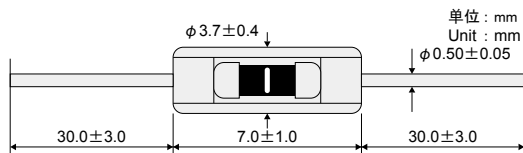
■Features

- The 5mm pitch; radial taped parts can be mounted using automatic insertion equipment (the part is lower than 15.5mm). (except the item of over 2700V)
- 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.
- Operating temperature limit : -40 ~ 85℃
- Storage Temperature Range : -55 ~ 125℃

■型号构成 Part number system

DE37	—	401	—	W	—	S00B																										
系列名 Series		直流放电开始电压 (Vs) DC Spark-over voltage(Vs)		直流放电开始电压容许偏差 DC Spark-over voltage tolerance		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 × 10 <sup>1</sup> =400v Ex) 401 means: 40 × 10 <sup>1</sup> =400v		<table border="1" style="width: 100%; text-align: center;"> <tr><td>L</td><td>±15%</td></tr> <tr><td>M</td><td>±20%</td></tr> <tr><td>W</td><td>+20% -15%</td></tr> </table>	L	±15%	M	±20%	W	+20% -15%		<table border="1" style="width: 100%; text-align: center;"> <tr><td>A12F</td><td>轴向编带（带宽26mm）、扁平包装 Axial taping (taping width 26mm), ammo pack taping</td></tr> <tr><td>A21F</td><td>轴向编带（带宽幅52mm）、扁平包装 Axial taping (taping width 52mm), ammo pack taping</td></tr> <tr><td>A22F</td><td>轴向编带（带宽幅52mm）、扁平包装 Axial taping (taping width 52mm), ammo pack taping</td></tr> <tr><td>D04F</td><td>径向编带、扁平包装 Radial ammo pack (5.0mm width pitch) taping</td></tr> <tr><td>G04F</td><td>径向编带、扁平包装 Radial ammo pack (5.0mm width pitch) taping</td></tr> <tr><td>G04G</td><td>径向编带、扁平包装 Radial ammo pack (5.0mm width pitch) taping</td></tr> <tr><td>H06F</td><td>径向编带、扁平包装 Radial ammo pack (7.5mm width pitch) taping</td></tr> <tr><td>H06G</td><td>径向编带、扁平包装 Radial ammo pack (7.5mm width pitch) taping</td></tr> <tr><td>H06K</td><td>径向编带、扁平包装 Radial ammo pack (7.5mm width pitch) taping</td></tr> <tr><td>S00B</td><td>散装 Bulk pack</td></tr> </table>	A12F	轴向编带（带宽26mm）、扁平包装 Axial taping (taping width 26mm), ammo pack taping	A21F	轴向编带（带宽幅52mm）、扁平包装 Axial taping (taping width 52mm), ammo pack taping	A22F	轴向编带（带宽幅52mm）、扁平包装 Axial taping (taping width 52mm), ammo pack taping	D04F	径向编带、扁平包装 Radial ammo pack (5.0mm width pitch) taping	G04F	径向编带、扁平包装 Radial ammo pack (5.0mm width pitch) taping	G04G	径向编带、扁平包装 Radial ammo pack (5.0mm width pitch) taping	H06F	径向编带、扁平包装 Radial ammo pack (7.5mm width pitch) taping	H06G	径向编带、扁平包装 Radial ammo pack (7.5mm width pitch) taping	H06K	径向编带、扁平包装 Radial ammo pack (7.5mm width pitch) taping	S00B	散装 Bulk pack
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■形状·尺寸 Dimensions



■特性 Characteristics

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 C	浪涌耐量 Surge current capacity 8/20 μs	浪涌寿命 Surge life test	AC耐电压 AC withstanding voltage	UL规格认证产品 UL recognized		cUL规格认证产品 cUL recognized	EN规格认证产品 EN recognized	
								UL 497B File No. E175280	UL1449 File No. E318314			
DE37-301L	300V (255~345)	≥100MΩ	DC 100V	≤1pF	1,500A	8/20 μs 100A 300times	—	○	—	—	—	
DE37-351M	350V (280~420)		DC 250V				—	○	—	—	—	—
DE37-401W	400V (340~480)						—	○	—	—	—	—
DE37-501M	500V (400~600)						—	○	—	—	—	—
DE37-102M	1,000V (800~1,200)						—	—	—	—	—	—
DE37-272M	2,700V (2,160~3,240)					DC 500V	AC1,000V-1min AC1,200V-3s	—	○ 1)	○ 1)	—	—
DE37-302M	3,000V (2,400~3,600)		AC1,500V-1min				—	○ 2)	○ 2)	○ 3)	—	
DE37-362M	3,600V (2,880~4,320)		AC1,800V-3s				—	○ 2)	○ 2)	○ 3)	—	
DE37-452M	4,500V (3,600~5,400)		DC 1,000V				AC2,000V-1min	—	○ 2)	○ 2)	○ 3)	—
							—	—	—	—	—	—

- 1) : 若与压敏电阻 (AC125V : V1mA ≥ 270V, D ≥ φ 5mm) 电气串接即被认可。  
: Approved if used with a varistor (125VAC : V1mA ≥ 270V, φ ≥ 5mm) electrically connected in series.
- 2) : 若与压敏电阻 (AC125V : V1mA ≥ 270V, D ≥ φ 5mm, AC250V : V1mA ≥ 470V, D ≥ φ 5mm) 电气串接即被认可。  
: Approved if used with a varistor (125VAC : V1mA ≥ 270V, φ ≥ 5mm ; 250VAC : V1mA ≥ 470V, φ ≥ 5mm) electrically connected in series.
- 3) : 若与压敏电阻 (V1mA ≥ 470V, D ≥ φ 5mm) 电气串接即被认可。  
: Approved if used with a varistor (V1mA ≥ 470V, φ ≥ 5mm) electrically connected in series.
- 4) : 安全标准认定条件可能会被修订。关于最新的认定状况, 请确认各标准的主页。  
: Safety standard certification conditions may be revised. Would you confirm the web site of each standard about the latest information.

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

- 浪涌试验  
10/700 μs 1.5kV/4kV (25Ω) ±5次
- AC感应试验  
AC600V (600Ω) 1秒 5次
- AC交叉试验  
AC230V (10~1000Ω) 15分  
但外加AC230V时, DE37-401W未响应。

■Basic Conditions for ITU-T K.20

- Surge Test : 10/700 μs, 1.5kV/4kV (25Ω), 5 times.
- AC Induced Test : AC600V (600Ω), 1sec., 5 times.
- AC Cross Test : AC230V (10~1000Ω), 15min.  
(however, AC230V is too low for the DE37-401W to react)