

## Gas Plasma Overvoltage Protectors

### Alpha Range

Gas Plasma Protectors provide extremely fast response to overvoltage transients, especially in the range from 1KV/ $\mu$ S to 10KV/ $\mu$ S, which is the domain of many destructive pulses.

These devices offer performance far removed from any other gas based protector and the 'Alpha' tag signifies a super premium product.

Alpha devices have been used to replace solid state protectors in telecom central office (exchange) locations where low capacitance are necessary for the transmission of high-speed data rates. The Alpha devices in service have proven to provide protection at least equal to solid state devices they replaced.

The ultra low capacitance of Gas Plasma protectors (typically 1pF) means that they exhibit low loss up to around 1.8GHZ

### Beta Range

Gas Plasma Protectors offer high-speed performance without any additional cost over the market norm for a quality product. The speed of these products (which ultimately determine the effectiveness of a protector) is demonstrably better than traditional designs so offers much better value.

The Beta tag signifies a premium product at a standard price. Beta devices are available in 2 terminal, 3 terminal and mini-tube configurations, including a true surface mount design.

### Delta Range

Gas Plasma Protectors provide very high current handling; they can divert up to 20KA and 20mps AC (tested in accordance with ITU K12) without loss of protection levels, so are ideally suited to outside plant applications. They are especially designed for high energy, long duration pulses, like 10/350mS. They exhibit exceptional life characteristics so will provide a cost-effective solution to high protection requirements.

### Omega Range

These are designed for non-premium applications. Although these devices are lower cost, they do not give away anything in performance when compared to traditional designs.

#### Alpha Superfast Premium product

SL1121 XXX (3 terminal Hybrid)  
SL1221 XXX (3 terminal 150v, 200v)  
SL1211 XXX (2 terminal)

#### Beta Fast Quality product

SL1002 (2 terminal mini series)      SL1003 (3 terminal mini series)  
SL1021A 200v, 230v, 260v, 350v  
SL1021B 230v, 260v, 350v

#### \*Delta High Energy Premium product

SL1411 (2 terminal)    \* >350    8x8mm    SL1421 (3 terminal)  
SL1411 (2 terminal)    <350    6x8mm

#### Omega General applications

SL1024 (3 terminal series)  
SL1011 (2 terminal series)  
SL1021A150v  
SL1502 (2 terminal mini)  
SL1503 (3 terminal mini)

