## “ZNR” Transient/Surge Absorbers

### Products System

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| Type D Series V | Standard type with radial leads for general surge protect applications | ● Varistor Voltage: 18 to 1800 V  
● Maximum Peak Current: 125 to 7000 A  (at 8/20 μs) | P.3 |
| Type D Series E/E-S1 | Large surge current and energy handling capability for absorbing transient overvoltage | ● Varistor Voltage: 200 to 1100 V  
● Maximum Peak Current: 600 to 7000 A  (at 8/20 μs) | P.30 |
| Type SMD Series HF | For Automotive (DC12 V)  
Meet for Load Damp Surge  
Compact size SMD High Reliability | ● Varistor Voltage: 20 to 23.2 V  
27 V±20 %  
● Maximum Surge: JASO A-1  
70 V 1 time | P.67 |
| Type SMD Series VF | Surface mount type with protective coating so as to high level reliability | ● Varistor Voltage: 22 to 470 V  
● Maximum Peak Current: 125 to 600 A  (at 8/20 μs) | P.70 |
| Type SC | For incorporation in a surge protective device corresponding to the JIS C 5381-1 | ● Varistor Voltage: 200 to 950 V  
● Maximum Peak Current: 125 to 600 A  (at 8/20 μs) | P.79 |
| Type E Type CK | For an application in industrial electric or electronic equipment under heavy duty | ● Varistor Voltage: 200 to 1100 V  
● Maximum Peak Current: 5 to 25 kA  (at 8/20 μs) | P.81 |
| Type P | Plug-in type with deterioration indicator. For application to industrial equipment | ● Varistor Voltage: 250 to 1000 V  
● Maximum Peak Current: 5000 A  (at 8/20 μs) | P.95 |
| Type J | Stack-type for heavy surge energy application (High power induced load and so on) | ● Varistor Voltage: 560 to 1250 V  
● Maximum Peak Current: 80 to 320 kA  (at 4/10 μs)  
● Energy: 5000 to 40000 J | P.97 |
| Type G | For protection to switching surge of high voltage (3.3, 6.6 kV) equipment | ● Varistor Voltage: 5 to 17 kV  
● Maximum Peak Current: 5 to 10 kA  (at 8/20 μs)  
● Energy: 1300 to 2600 J | P.100 |
| Surge Absorber Units | Surge absorber with connected ZNRs and circuit breaker in box | ● Varistor Voltage: 12 to 100 V  
● Maximum Peak Current: 5000 A | P.102 |
| Surge Absorbers for Thyristor | Thrister protection against switching surge of transformer | ● Varistor Voltage: 510 to 2500 V  
● Impulse Life: 40 to 210 A  
(2 ms, 10⁴ times) | P.104 |

Design and specifications are each subject to change without notice. Ask factory for the current technical specifications before purchase and/or use.

Should a safety concern arise regarding this product, please be sure to contact us immediately.

1-Jul-20