Pacific Scientific 6382 Rose Lane Carpinteria, CA 93013
Cage 02101 Tel 805.576.5000 Fax 805.576.5020

*Data Sheet*

PACIFIC SCIENTIFIC
Electro Kinetics Division
www.psekd.com

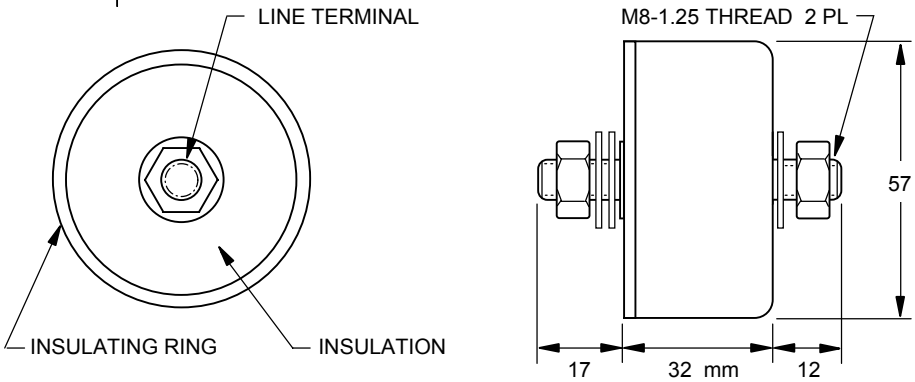
# AC SURGE ARRESTER
## MODEL 1251 SERIES

1251-00 NSN not assigned
1251-01 NSN 6625-01-447-5157
1251-02 NSN 6625-01-444-9393

ARRESTERS PRODUCED AFTER 2005/20/01 ARE COMPLIANT WITH EU 'ROHS' DIRECTIVE 2002/95/EC


- Application — General purpose lightning and surge protection on power circuits. Its compact size makes it suited for NEMP protection as well.
- Technology — Gas tube isolated MOV array allows the arrester to withstand higher value TOVs, while its low capacitance minimizes reactive leakage currents thus permitting use on higher frequency systems.

| | | | | |
|---|---|---|---|---|
| • Model Number | | **1251-00** | **1251-01** | **1251-02** |
| • Nominal System Voltage | | 100-127 Vac | 220-277 Vac | 380-415 Vac |
| • Maximum Continuous Operating Voltage | | 150 Vac | 320 Vac | 440 Vac |
| • Gas Tube Isolation Voltage, Minimum | | 200 Vac | 350 Vac | 475 Vac |
| • Impulse Sparkover | 1 kV/μs | <800 V | <950 V | <1400 V |
| | 10 kV/μs | <1100 V | <1250 V | <2500 V |
| | 1 kV/ns | <2650 V | <3000 V | <5300 V |
| • Discharge Voltage | 1.5 kA, 8/20 μs | <475 V | <875 V | <1250 V |
| | 5 kA, 8/20 μs | <575 V | <1025 V | <1350 V |
| | 10 kA, 8/20 μs | <650 V | <1125 V | <1500 V |
| | 20 kA, 8/20 μs | <850 V | <1250 V | <1650 V |
| • Surge Life | 1.5 kA, 8/20 μs | | 10,000 Operations | |
| | 5 kA, 8/20 μs | | 500 Operations | |
| | 10 kA, 8/20 μs | | 50 Operations | |
| | 30 kA, 8/20 μs | | 1 Operation | |
| • System Power Rating (kVA) | | | Unlimited | |
| • System Frequency Rating | | | DC-20 kHz | |
| • Capacitance | | | <20 pF | |
| • Insulation Resistance | | | $>10^9\Omega$ | |
| • Operating Altitude | | | 6000 m | |
| • Operating Temperature | | | -40 to +80C | |
| • Terminal Torque | | | <6 N-m | |
| • Weight | | | 0.2 kg | |
| • Symbol (IEC 117) | | | | |




Fusing Coordination - If it is desired to isolate the arrester at its end of life, a 5 cm link of .8 mm (#20 AWG) copper buss wire can be connected between the phase conductor and arrester's line terminal. Alternately, a properly rated 60 amp fuse can be used. Smaller gauge wires or a lower fuse rating can cause 'nuisance' blowing during large but survivable surge events.