



ELECTRONICS, INC.
 44 FARRAND STREET
 BLOOMFIELD, NJ 07003
 (973) 748-5089

NTE15040-ECG thru NTE15048-ECG NTE15049AC & NTE15050AC Surge Arresters (Gas Filled)

| NTE Type No. | Diag. No. | DC Breakdown Voltage | | | Impulse Breakdown @ (100V/ μ s) Maximum Voltage | Maximum Capacitance Between Electronics @ 1MHz (pF) |
|--------------|-----------|-----------------------|---------------|---------------|---|---|
| | | Nominal Voltage (VDC) | Minimum Volts | Maximum Volts | | |
| 15040-ECG | 628 | 75 | 60 | 90 | 400 | 1.0 |
| 15041-ECG | 628 | 90 | 72 | 108 | 400 | 1.0 |
| 15042-EGC | 628 | 110 | 88 | 132 | 450 | 1.0 |
| 15043-ECG | 628 | 145 | 116 | 174 | 500 | 1.0 |
| 15044-ECG | 628 | 230 | 195 | 265 | 600 | 1.0 |
| 15045-ECG | 628 | 300 | 255 | 345 | 700 | 1.0 |
| 15046-ECG | 628 | 350 | 297 | 403 | 750 | 1.0 |
| 15047-ECG | 628 | 470 | 400 | 540 | 850 | 1.0 |
| 15048-ECG | 628 | 600 | 510 | 690 | 1000 | 1.0 |
| 15049AC | 628 | 120VAC | 225 | - | 700 | 1.0 |
| 15050AC | 628 | 240VAC | 425 | - | 800 | 1.0 |

SPECIFICATIONS

Surge Life
 10A 10/1000 μ s Pulse 2500 Operations
 500A 10/1000 μ s Pulse 1000 Operations
 AC Suffix 300 Operartions

Surge Current
 8/20 20kA

AC Current
 10 Operations 60Hz for 1sec., with 3 min. Intervals 20
 AC Suffix 5

AC Current
 11 Cycles 60Hz 20A
 AC Suffix 10A

Insulation Resistance
 100 VDC 10,000 Megohms

Operating Temperature -65° to +125°C

Response Time (Typical) < 100ns

TYPICAL CIRCUIT APPLICATIONS

| Application | Protected Equipment | NTE Type |
|--------------------|---|---------------------------------------|
| CATV | Trunk Amplifier | 15043-ECG |
| | Cable Extender, Splitter Grounding Block, Converter Box, 30 & 60 VAC Power Supply | 15044-ECG |
| AC Line Protection | 117 VAC Line | 15049AC |
| | 220 VAC Line, All AC Loads | 15050AC |
| Communication | Modem | 15046-ECG |
| | Antenna Connected Equipment | 15041-ECG, 15043-ECG, 15044-ECG |
| Power Supplies | Voltage Doubler, Capacitors, Voltage Regulator, Rectifier Diodes | 15044-ECG, 15047-ECG |
| Computer | Data Lines | 15041-ECG, 15044-ECG |

| Application | Protected Equipment | NTE Type |
|-------------------------------------|--|-------------------------|
| Test Equipment | Meter Inputs | 15040-ECG, 15045-ECG |
| Capacitive Discharge | Ignition Circuit Components, Pulse Generator Components | 15044-ECG, 15046-ECG |
| Signal Lines (Single Ended) | Alarm Circuits | 15040-ECG |
| Communications (Lightning) | Telephone Line (Normal Mode) | 15046-ECG |
| Power Line (Lightning) | AC Wall Output (Long Branch Circuit) 120 VAC | 15049AC |
| | Breaker Box (Short Branch Circuit) 240 VAC | 15050AC |
| Process Control (24 MA Signal Loop) | Instrumentation Circuits | 15040-ECG, 15041-ECG |

