



**ELECTRONICS, INC.**  
 44 FARRAND STREET  
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## NTE15040-ECG thru NTE15048-ECG NTE15049AC & NTE15050AC Surge Arresters (Gas Filled)

NTE Type No.	Diag. No.	DC Breakdown Voltage			Impulse Breakdown @ (100V/μs) 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 10/1000μs Pulse ..... 2500 Operations  
 500A 10/1000μs 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

