

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–ECG	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 Operations

Surge Current

8/20	20kA
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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
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Operating Temperature

–65° to +125°C	
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Response Time (Typical)

< 100ns	
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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
Communica- tion	Modem	15046–ECG
	Antenna Connected Equipment	15041–ECG, 15043–ECG, 15044–ECG
Power Sup- plies	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

Diagram 628

