



NOTE:  
 1- DIMENSIONS IN PARENTHESES ARE REFERENCE AND WILL NOT BE INSPECTED AT THIS LEVEL.  
 2- ANODE RESISTANCE IS APPROXIMATELY 8045 ± 5% OHMS.

FOR PROPRIETARY INFORMATION, THIS DOCUMENT CONTAINS PROPRIETARY INFORMATION OF THE © 2008 GENERAL ELECTRIC COMPANY AND MAY NOT BE USED OR DISCLOSED TO OTHERS, EXCEPT WITH THE WRITTEN PERMISSION OF GENERAL ELECTRIC COMPANY.

LIST OF MATERIAL OR PARTS

CONTROL TO ASSEMBLY (I.E. 174 3183) DIMENSIONS UNLESS SPECIFIED, DIMENSIONS IN INCHES/ANGLES		APPLIED PRACTICES DWN 1/2 Karl Luoma		 GE Energy Twinsburg, Ohio 44087	
XX DECIMAL	± .01	XXX	2.002		
ANGULAR	± .01	CHAMFER	45°		
FILE	± .01	SURFACE FINISH	427		
DIMENSIONS ARE IN INCHES					
MATERIAL			APPROVED		
STAINLESS STEEL CONSTRUCTION			SIZE B		
			DWG NO RS-P4-0824-222		
			SCALE 1:1		
			REV 0		
			SHEET 1 OF 1		

HE-3 PROPORTIONAL COUNTER

## Sales Specifications

**Model Number:** RS-P4-0824-222

He-3 NEUTRON DETECTOR - POSITION SENSITIVE

### Mechanical

Maximum diameter: ..... SEE DRAWING  
Maximum overall length: ..... SEE DRAWING  
Connector Type: ..... HN

### Material

Body Material: ..... 304 SS  
Connector Material: ..... BRASS, SILVER PLATED  
Connector Insulator: ..... ALUMINA  
Internal Insulator: ..... ALUMINA CERAMIC  
Coating Material: .....  
Primary Gas: ..... He-3  
Total Pressure: ..... 151.5 psia ( 1.04 MPa)  
*= 10.31 atm*

### Electrical

Resistance : ..... 1.00E+12 ohms  
Capacitance: ..... 10 pF±20%

### Maximum Ratings

Maximum Voltage: ..... 2500 volts  
Maximum Temperature: ..... 100 °C

### Operating Characteristics

Thermal neutron flux range: ..... 9.20E-05 to 4.67E+02 nv  
Thermal neutron sensitivity: ..... 107 cps/nv ± 10 %  
Voltage Range: ..... 900 to 1425 volts  
Resolution (FWHM): ..... < 10 %  
Temperature range: ..... -25 °C to 100 °C

GE Reuter-Stokes reserves the right to  
improve or modify designs and/or  
specifications without notice.

21-Aug-07