

Beckman

HALLEFEX<sup>®</sup> thin-film Hall Generator - MODEL 350

SPECIFICATIONS

Input Resistance,  $R_i$  ..... 64 ohms  
 Output Resistance,  $R_o$  ..... 27 ohms  
 Resistive Null Voltage ..... 0.4 MV @ 70 MA  
 Output Sensitivity, Open Circuit ..... 3.5 volt/amp.-kG  
 Input Power @ 25°C. ambient ..... 125 MW Nominal, 250 MW Max.  
 Inductive Null Voltage,  $V_{ind} = A \frac{dB}{dt}$  ..... Input Loop  $A_1 = 0.18 \text{ cm}^2$   
 ..... Output Loop  $A_2 = 0.025 \text{ cm}^2$  } typ.  
 Temperature Dependence of Resistance = .....  $b = 0.017 \text{ T in degrees C., typical}$   
 $R(T^\circ) = R(0^\circ)e^{-bT}$   
 Temperature Dependence of Hall Constant:  
 $R_H(T^\circ) = R_H(0^\circ)e^{-aT}$  .....  $a = 0.014 \text{ T in degrees C., typical}$   
 Temperature Rise/milliwatt input power, element in free air ..... 0.3°C/MW, typical  
 Storage Temp. Range ..... -40° to +100°C.  
 Operating Temp. Range ..... -20° to +100°C.

LEADS: Input: Black-Red; Output: Blue-Yellow. Leads of #34 gauge single strand copper with Teflon insulation.

Red and blue leads will be in phase when magnetic field is in direction indicated by  $\otimes$   
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