BILLINGSLEY AEROSPACE & DEFENSE

TFM65-VQS



ULTRA MINIATURE FLIGHT MAGNETOMETER

FEBRUARY 2008 SPECIFICATIONS

Axial Alignment: Input Voltage Options: Input Current:

Field Measurement Range: Accuracy: Linearity: Sensitivity: Scale Factor Temperature Shift: Noise: Output Ripple: Analog Output @ Zero Field: Zero Shift with Temperature: Susceptibility to Perming: Output Impedance: Frequency Response: Over Load Recovery: Sensor Type: EMI:

Random Vibration: Temperature Range: Acceleration: Radiation Hardened: Weight: Size: Connector:

Orthogonality better than $\pm 1^{\circ}$ 20 - 34 VDC ≈ 18 mA @ 28 VDC in – Constant Power Power and Signal Lines Galvanically Isolated \pm 60 μ T = \pm 6.0 V (Other Options Available) ± 0. 5% of Full Scale \pm 0.003% of Full Scale, Typical < \pm 0.001% 100 µV/nT (TFM100G4-S) 0.002% Full Scale/ °C <35 pT RMS/ Hz @1 Hz, Typical < 20 pT 3 μV Peak to Peak at 2nd Harmonic ± 0.005 V \pm 0.2 nT/°C / < 0.05 nT/°C (Special) \pm 20 nT shift with \pm 5 Gauss Applied 332 Ω ± 5% (Can Drive > 3500' of Cable) $3 \text{ dB} @ \ge 3.5 \text{ kHz}$ (Can be rolled off to lower frequency.) \pm 5 Gauss slew < 2 milliseconds Vacquier – Immune to Crossfield Effects Designed to meet CEO1, CEO3, REO2, CSO1, CSO2, CSO6, RSO1, RSO2, RS03 > 23G RMS 20 Hz to 2 KHz - 55° to + 80° Celsius operating > 60G > 200 kRADs 117 g 3.51 cm x 3.23 cm x 8.26 cm 9 PIN MALE "D" TYPE; Female Mating Connector Supplied