

**SPECIFICATIONS FOR IEPE TYPE ACCELEROMETER (FLY AWAY)
TOP CONNECTOR**

Sl. No	Parameter	Value
1.	Quantity	70 Nos.
2.	Sensor	Piezo-electric sensor with integral electronics and top connector
3.	Range	≥ 500 g
4.	Sensitivity:	≥ 10 mV/g $\pm 10\%$
5.	Environmental Shock limit	≥ 2000 g
6.	Weight	≤ 10 grams excluding Cable
7.	Size	Mounting surface $\leq 10 \times 10$ mm ² or diameter ≤ 10 mm & Nominal height ≤ 12 mm (excluding connector)
8.	Construction	Stainless Steel or Titanium or anodized aluminum case material
9.	Sealing	Hermetically sealed
10.	Electrical connection	Accelerometer to be terminated with a Co- Axial Connector
11.	Cable to be provided with the Sensor	The Accelerometer should be provided with a replaceable Low Noise Connecting Cable of Length 0.8 meter to connect the Accelerometer with a Co-Axial connector and terminated at the other end with 10-32 UNf female connector to connect to instrumentation, if accelerometer o/p terminal is not 10-32 UNf female connector
12.	Heritage	Accelerometer offered should have a proven Heritage for use in space programs of NASA, ESA, ISRO or any other space agency. Documentary evidence in this regard should be furnished along with technical part of the offer
13.	Cable Bend Relief	Non-outgassing material
14.	Mounting arrangement	Adhesive
15.	Case isolation	Electrical Isolation of case / mounting surface shall be integral part of the sensor body
16.	Frequency response	5 Hz to 5 KHz or better with $\pm 5\%$ deviation in sensitivity
17.	Resonance frequency	≥ 20 kHz
18.	Amplitude linearity	Better than 2% of full scale
19.	Cross axis response (Transverse sensitivity)	$\leq 5\%$
20.	Output impedance	≤ 200 Ohms
21.	DC o/p Bias Voltage range	6V to 15 V
22.	Residual noise	< 0.007 gRMS
23.	Input DC supply range	18 - 30V @ 2-20mA
24.	Operating temperature range	- 50°C to +120 °C
25.	Calibration Certificate, traceable to NIST standards.	To be provided by vender
26.	Accelerometer Removing Tool.	To be provided by vender

27.	a suitable housing/ standard box for safe handling and storage.	To be provided by vender
28.	Warranty	One year from the date of acceptance
29.	Detailed catalogue with drawings pertaining to the model quoted must be provided.	To be provided by vender
30.	Vendor should provide authorization letter from manufacturer for providing Sales and Support including Warranty in India.	To be provided by vender