

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

<b>Sl. No.</b>	<b>Parameter</b>	<b>Value</b>
1.	Sensor Type	Piezo-electric sensor with integral electronics
2.	Cable Connector Location	Top
3.	Sensitivity (Nominal)	10 mV/g $\pm$ 10%
4.	Measurement Range	$\geq$ 500 g
5.	Environmental Shock limit	$\geq$ 2000 g
6.	Weight (Excluding Cable)	$\leq$ 06 grams
7.	Size: Mounting Base x Height. (Excluding Connector)	Base $\leq$ 12 mm x 12 mm (or $\leq$ 12.5 mm diameter) Height: $\leq$ 12 mm
8.	Connector Length attached to accelerometer	$\leq$ 10 mm
9.	Construction	Stainless Steel or Titanium or Anodized Aluminum case material
10.	Sealing	Hermetically sealed
11.	Electrical connection	Accelerometer to be terminated with a Co-Axial Connector
12.	Cable to be provided with the Sensor if accelerometer output terminal is other than 10-32 UNF female connector.	The Accelerometer should be provided with a replaceable Low Noise Connecting Cable of Length $\geq$ 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
13.	<b>If cable is provided:</b> Cable Bend Radius	$\leq$ 26mm
14.	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.
15.	Mounting Arrangement	Adhesive
16.	Case isolation	Electrical Isolation of case / mounting surface shall be integral part of the sensor body
17.	Frequency response	5 Hz to 5000 Hz or better with $\pm$ 5% deviation in sensitivity

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18.	Resonance frequency	$\geq 20$ kHz
19.	Cross Axis Response (Transverse Sensitivity)	$\leq 5\%$
20.	Output impedance	$\leq 200$ Ohms
21.	DC o/p Bias Voltage	Between and including 7 V to 16 V
22.	Input DC supply voltage	18 – 30 V
23.	Supply current	2 mA – 20 mA
24.	Operating temperature range	- 50° C to +120° C
25.	<b>If cable is provided:</b> Outgassing of all non-metallic material used in cable	Should be Low Outgassing with CVCMM $\leq 0.1\%$ , TML $\leq 1\%$
26.	<b>If cable is provided:</b> Outgassing test certificate for all non-metallic material used in cable	To be provided by vender
27.	Calibration Certificate, traceable to NIST standards.	To be provided by vender
28.	Accelerometer Removing Tool.	If any special tool (Other than standard C-type spanners or adjustable spanner) is required to remove the accelerometer, it is to be provided by the vendor.
29.	Suitable housing/ standard box for safe handling and storage.	To be provided by vender
30.	Warranty	One year from the date of acceptance
31.	Detailed catalogue with drawings pertaining to the model quoted must be provided.	To be provided by vender
32.	Vendor should provide authorization letter from manufacturer for providing Sales and Support including Warranty in India.	To be provided by vender