



**INDIAN INSTITUTE OF TECHNOLOGY BOMBAY**  
**MATERIALS MANAGEMENT DIVISION**  
 Powai, Mumbai 400076.

Ref. PR No. 1000051552

Rfx. No. 6100002532

**Item Description: Current Probe, High Voltage Differential Probe and High Voltage Optically Isolated Probe**

Sr. No	Item Description	Detailed Technical Specification	Technical Compliance (Yes / No)	Additional Information (if any)
1.	<b>High Voltage Optically Isolated Probe – ( Qty 1 no. )</b>	<ol style="list-style-type: none"> <li>1. Differential measurable voltage: 2.5 kV</li> <li>2. Bandwidth: 350 MHz or higher</li> <li>3. Rise time: 1.1 ns or higher</li> <li>4. Common mode voltage: <math>\pm 60</math> kV</li> <li>5. Maximum Input Voltage to Earth: <math>\pm 60</math> kV</li> <li>6. Output Termination: 50 ohms</li> <li>7. Cable length: 2 m or higher</li> <li>8. Other standard accessories: Power supply, connectors, and other standard accessories</li> <li>9. Tips included: 40 V, 1000 V, 2500 V tips with MMCX to Y-lead sockets/solder-ins, square pin socket/solder-ins, MMCX–square pin adapter, grabbers</li> <li>10. Warranty: 1 year</li> </ol>		
2.	<b>High Voltage Differential Probe– ( Qty - 2 no. )</b>	<ol style="list-style-type: none"> <li>1. Differential measurable voltage: 6 kV (high attenuation), 600 V (low attenuation)</li> <li>2. Bandwidth: 100 MHz or higher</li> <li>3. Rise time: 4.3 ns or higher</li> <li>4. Common mode voltage: <math>\pm 7.6</math> kV</li> <li>5. Maximum Input Voltage to Earth: <math>\pm 7.6</math> kV</li> <li>6. Slew rate: 1 kV/ns</li> <li>7. Attenuation: 200x / 2000x</li> <li>8. Input impedance: 2.5 pF (between differential inputs)</li> <li>9. Output Termination: 1 M<math>\Omega</math></li> <li>10. Noise: 200x: &lt;65 mVrms; 2000x: &lt;320 mVrms</li> <li>11. Other standard accessories: Power supply and other required standard accessories</li> <li>12. Standard tips included: High Bandwidth 4 mm Probe Tip Adapters, Safety Alligator Clips, Plunger Pincer Clips, Plunger Hook Clips, Plunger Alligator Clips, Spade Terminals</li> <li>13. Warranty: 1 year</li> </ol>		

3.	<b>Current Probe– ( Qty - 4 no. )</b>	<ol style="list-style-type: none"><li>1. Bandwidth (–3 dB): DC – 50 MHz</li><li>2. Rise Time: ≤ 7 ns</li><li>3. Continuous Maximum Input: 50 A rms + 30 A rms (Set of 2)</li><li>4. Maximum Peak Input (≤ 10 μs): 75 A (for 50 A rms probes), 50 A (for 30 A rms probes)</li><li>5. Maximum Measurement Conductor Diameter: 5 mm both probes in a set</li><li>6. Operating Temperature &amp; Humidity: 0 °C – 40 °C, ≤ 80%</li><li>7. Safety Compliance: EN61010-1:2010+A1:2019, EN61010-2-032:2019</li><li>8. Power Supply: A suitable power supply for each individual probes in a set</li><li>9. Warranty: 1 year</li></ol>		
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