



Our ion and electron sources
ready for your needs

FARADAY CUP

DATASHEET



FLEXIBLE TO SUIT YOUR SPECIFIC APPLICATIONS

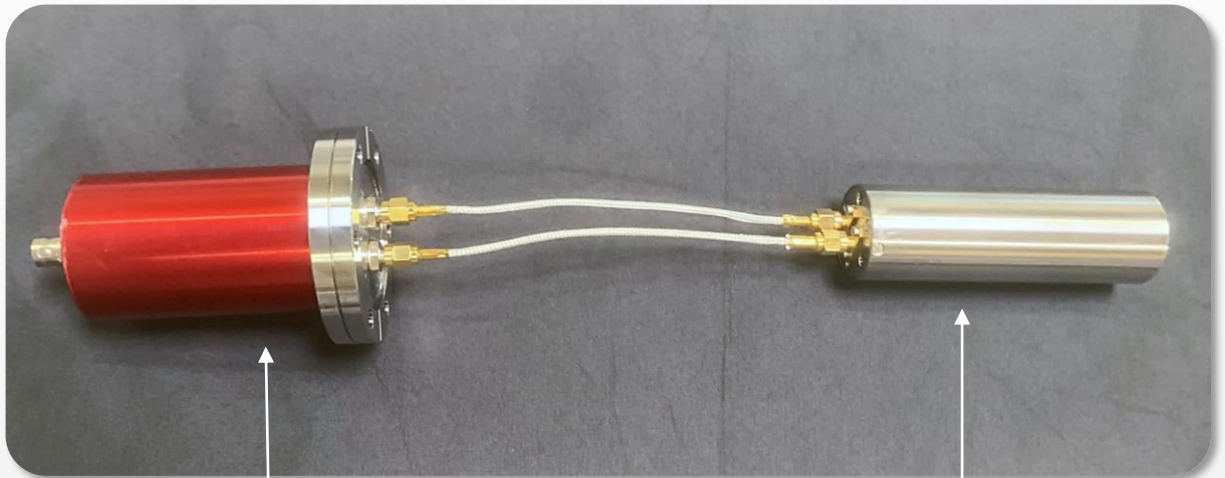
MOBILE UNDER VACUUM

Faraday Cup

	Mechanical characteristics
Flange type for vacuum feedthrough	1 port CF40
Mobile under vacuum	Yes, flexible connections to electronics
Aperture range	<p>Circular : Up to 18.5mm</p> <p>Slit : Up to 19mm long, 5mm wide standard</p> <p><i>Adaptable to the demand</i></p>
Mass cover diameter	32 mm
Overall length	<p>Faraday Cup (under vacuum) : 80.5mm</p> <p>Electronics : 100.8mm with BNC connector</p>

	Recommended use
Beam Power Rating	Up to 20W
Reading precision	0.1% of max calibration current
Calibration current	Adjustable from 0...100 nA to 0...100 mA
Input A.C. Voltage	230V
Polarisation Voltage	Up to 200V
Beam Polarity (Positive or Negative)	Both
Electrical connection	<p>1 BNC for measurement (supplied) – compatible with control command rack for TES sources</p> <p>1 power supply cable (supplied)</p>
Cooling	None

Faraday Cup



Electronics

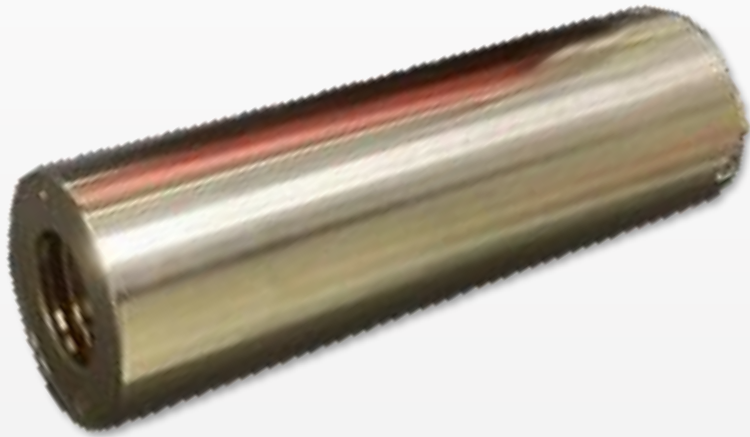
Faraday Cup



BNC connector

Entry of the power supply cable

Apertures examples



Slit

Up to 19mm long
5mm wide standard



Hole

1mm diameter,
smaller on demand



Circle

Up to 18.5mm diameter