

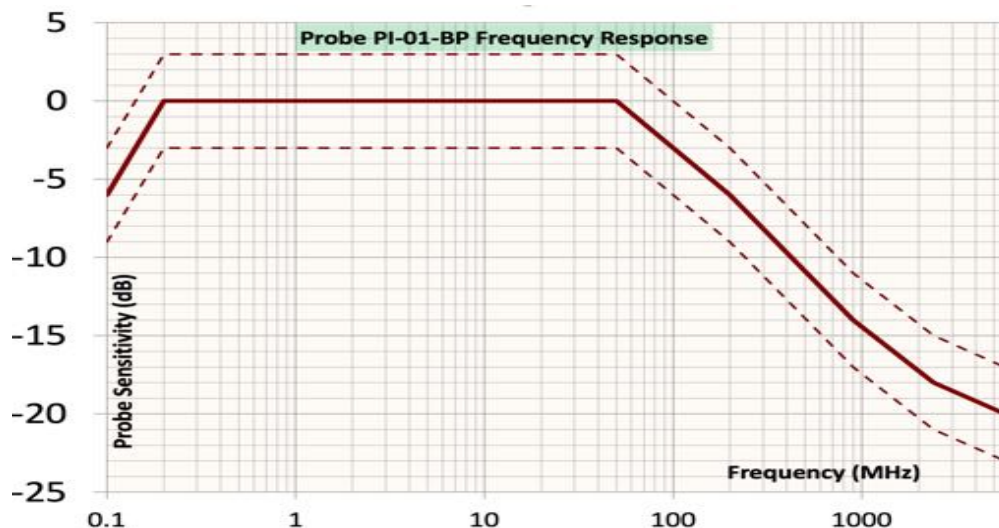
Probe PI-01-BP for Selective Low Frequency Applications

**Isotropic Electric Field Probe with Bandpass Frequency Response
for airborne drone low frequency measurement systems:
1-800 V/m, 100 KHz-100 MHz (pass band)
in the presence of strong communication signals:
800 MHz-6 GHz (stop band).**

PI-01-BP is an isotropic electric field probe with shaped low frequency response designed for drone measurement systems intended to perform polar measurement of antenna towers. Probe design ensures guaranteed rejection of high frequency fields generated by 800 MHz-6 GHz communication systems, allowing simultaneous measurements and data transmission without interruption.

Main System Parameters

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|--------------------------------|--|
| • Probe model: | PI-01-BP |
| • Frequency range: | 100 KHz-100 MHz (Pass band)
800 MHz- 6 GHz (Stop band) |
| • Diode based: | 3-Axial isotropic sensor, composite output. |
| • Field strength range: | 1 – 800 V/m. |
| • Power density range: | 0.27 $\mu\text{W}/\text{cm}^2$ – 170 mW/cm^2 . |
| • Probe power nonlinearity: | Less than 1.5 dB. |
| • Rotational isotropicity: | +/- 1 dB. |
| • Passband frequency response: | +/- 1 dB (200 KHz-50 MHz),
- 6 dB (100 KHz and 200 MHz). |
| • Stopband rejection: | 14 dB (@900 MHz),
18 dB (@2.4 GHz),
20 dB (@5.7 GHz). |
| • Calibration accuracy: | +/- 1 dB. |
| • Temperature: | 0-50°C, |
| • Humidity: | RH 10-90%, non-condensing. |
| • Temperature error: | <0.05 dB/°C |
| • Calibration: | UK NPL (UK National Physics Lab) traceable. |
| • Small size: LxD: | 9.0x2.25 inch, 230x58 mm. |
| • Weight: | 0.2 Lb., 100 g. |
| • Supporting equipment: | RFP-05M meter. |
| • Country of origin: | Designed and made in the USA. |



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