



MI-6480 Family of Field Probes

- Designed to evaluate the quality of your antenna or RCS test zone
- Excellent linearity for accurate phase measurements
- Standard lengths from 4 to 14 ft (1.2 to 4.3 m)

Description

In making precision antenna measurements, it is desirable to determine the nature of the incident field over the test aperture. This is necessary to evaluate field variations caused by extraneous signals arriving at the test aperture. The MI-6481 Phase/ Amplitude Field Probes are designed to mount to a positioner for use in evaluating the field. These Phase/Amplitude Probes offer excellent linearity to evaluate the quality of the incident phase for even the most demanding applications.

Each model in the family includes:

- Phase/Amplitude Field Probe with a rack and pinion linear axis
- Standard roll axis
- Absorber to cover the probe (combination of 3 and 6 inch)
- RF cable included (18 GHz, precision-N connectors)
- Probe to Positioner interface

The MI Technologies MI-6481 Phase/Amplitude Field Probes can be mounted on MI Technologies as well as many third-party positioners. Some mounting applications may require additional adapters.

Specifications

Parameter	Units	MI-6481-4	MI-6481-6	MI-6481-8	MI-6481-10	MI-6481-12	MI-6481-14
Length	ft	4	6	8	10	12	14
	m	1.2	1.83	2.44	3	3.66	4.27
Linearity P-P	in	±0.003	±0.004	±0.004	±0.004	±0.004	±0.004
	mm	±0.1	±0.1	±0.1	±0.1	±0.1	±0.1
Position Resolution	in	±0.01	±0.01	±0.01	±0.01	±0.01	±0.01
	mm	±0.25	±0.25	±0.25	±0.25	±0.25	±0.25
Position Accuracy	in	±0.05	±0.05	±0.05	±0.05	±0.05	±0.05
	mm	±1.27	±1.27	±1.27	±1.27	±1.27	±1.27
Linear Speed	in/s	2	2	2	2	2	2
	mm/s	50.8	50.8	50.8	50.8	50.8	50.8
Roll Speed	deg/s	30	30	30	30	30	30
Maximum Load on Pol Axis	lbs	50	50	50	50	50	50
	N	222	222	222	222	222	222
Maximum Bending Moment on Pol Axis	ft-lbs	50	50	50	50	50	50
	Nm	68	68	68	68	68	68