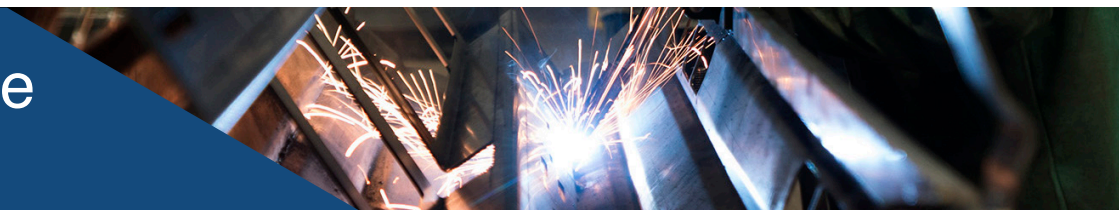
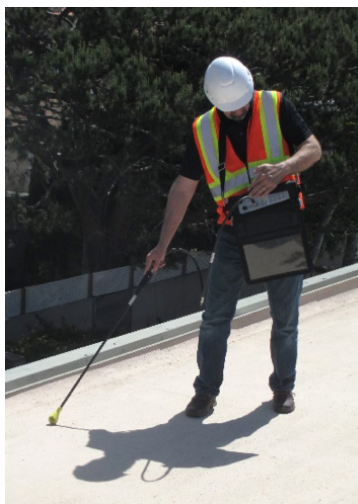


PIM Test Probe

Part number: 007320-01



The PIM test probe is used in conjunction with other test and measurement equipment to precisely locate external PIM sources in the field. Once PIM locations are identified, mitigation materials available from ConcealFab can be applied to reduce the PIM levels and improve site performance.



Test Parameter	Test Parameter
Frequency range	600 MHz to 2700 MHz
Near field radiated PIM	IM3 >-90 dBm when probe is radiated by 2x 20W test tones, 1 wavelength from 10 dBi gain test antenna
Near field signal variation vs. orientation	<5 dB variation in received signal level when probe is rotated 90° relative to an external PIM source
RF connector	Type N (female)
Construction	ABS protective probe tip, filament wound epoxy shaft, Times Microwave TuffGrip® handle
Dimensions	35-inch length, 1.9-inch probe tip diameter
ROHS	Compliant

The complete test system needed to isolate the location of external PIM sources includes the following additional equipment:

Equipment	Purpose	Comments
Base station antenna	Used to radiate external PIM sources	Typically, the antenna installed at a site. Temporary antennas can also be installed to evaluate candidate sectors prior to installation.
PIM test analyzer	Connected to antenna. Generates 2x 20W test tones and measures reflected PIM performance of sector	Any manufacturer's PIM analyzer will work. Best to select model with Distance-to-PIM measurement capability.
Spectrum analyzer	Connected to test probe, tuned to same IM3 frequency as PIM analyzer	If AC powered PIM analyzer is used, virtually any spectrum analyzer can be used. If a battery powered (pulsed) PIM analyzer is used, the spectrum analyzer must have fast enough sweep / detection speed to capture pulsed signals.
Band-pass filter	Installed between the PIM test probe and spectrum analyzer	Needed to prevent PIM analyzer test tones from reaching front end of the spectrum analyzer, while passing the IM3 test frequency
PIM blankets	Used to cover PIM sources once identified to simulate a permanent repair	Available from ConcealFab in a variety of sizes to support site testing.