



Designers, Developers & Manufacturers  
of Transient Protection Devices and RF Test Equipment

FISCHER CUSTOM COMMUNICATIONS, INC.

- Instrumentation
- Transient Protection Devices
- Calibration Services
- Product Updates
- Contact Us
- About FCC
- Application Notes

## BACK TO MONITOR CURRENT PROBES MASTER LIST

### F-97 Miniature Skin Current Probe

The F-97 skin current probe permits quantitative measurements of currents flowing on flat or curved surfaces, wires, and printed circuit board traces. Surface currents can be mapped quickly and easily because the probe is sensitive to the direction of skin current flow. The maximum sensitivity is in the direction perpendicular to the current flow. RF currents flowing on printed wiring boards can be easily mapped for the sources of emissions, their magnitudes, and currents in traces. The probe can be calibrated for the current under the footprint of an enclosure or surface. A surface is mapped by orienting the probe for its maximum sensitivity and then repeating the measurement after moving the probe to the next location. The dielectric base minimizes the probes disturbance to normal current flow to 10% or less. The transfer impedance has a 3 dB bandwidth of 40 MHz to 1,500 MHz with a magnitude of  $0.45\Omega$  when used as a surface probe. It is usable to lower frequencies with reduced sensitivity. A typical transfer impedance curve is shown. CW current amplitudes up to 10 amperes and pulse currents up to 100 amperes will not alter the transfer impedance characteristics. The probe connector is SMA. The probe dimensions are 7.62 mm wide, 10.16 mm long, and 12.7 mm high.

