Cascade EPS200RF

A complete 200 mm manual probing solution for RF applications up to 67 GHz



Benefits

Make everyone an RF expert

Best-known methods for highest measurement accuracy

Ensure calibration accuracy

WinCal XE – the only RF on-wafer calibration software

Enable testing of cutting-edge technologies

Ability to probe smallest RF pads and lowest pitches

Protect your investment for the future

Re-configure and upgrade as requirements grow

Minimize training efforts

Designed for convenience and ease of use

The EPS200RF is a dedicated advanced probing solution that comes with everything you need to achieve accurate measurement results in the shortest time, with maximum confidence. The system incorporates best-known methods for RF probing up to 67 GHz, with the ability to probe pads as small as 25 μ m x 35 μ m and beyond.

A very rigid and stable system design of the EPS200RF, with cast frame and single platen with four-point support, allows you to achieve high accuracy. An integrated vibration-isolation solution protects contact quality over measurement time. Optimized optics, backlash-free X-Y-Z movement of RF positioners, and a contact separation drive with outstanding 1 µm repeatability, enable precise probe placement and contact repeatability comparable to semiautomated systems. Industry-benchmark cables support the highest magnitude and phase stability of measurements. Choose a pair of 40, 50, or 67 GHz RF probes from our Infinity Probe[®], |Z| Probe[®], ACP and FPC probe families for the best contact performance. With WinCal XE™ software, you receive patented LRRM and LRM+ methods for the best calibration accuracy. Verified standards and optimized calibration boundary conditions allow you to achieve a repeatable metrological level of calibration and confidence in your measurement results.

An intuitive operation workflow with the innovative fine-glide chuck stage which offers both wide-range coarse movement and μm -level fine movement, contact gauge, integrated auxiliary chuck supported by WinCal XE wizards and tutorials, ensures ease of operation and short time to data for both the novice and the expert user.

Designed for upgradability with multiple options, the EPS200RF can be easily reconfigured to meet your future project requirements.



EPS200RF

Contact height gauge

- Precise overtravel adjustment
- · Reliable and repeatablecontact quality

Unique chuck stage

- Quick coarse Y/X movement and sub-micron positioning
- X/Y stepping with independent axes lock

Tailored RF platen and 40 mm platen drive —

- Precise mount of up to four positioners
- Flexibility for wafer-level and package tost

Unique 500 µm platen contact/separation drive

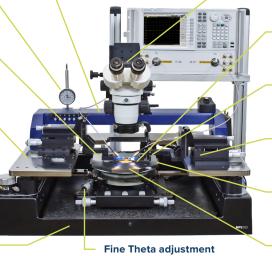
- Highest contact accuracy and consistency over entire wafer
- · Convenience and ease of use

Vibration isolation solution

Stabilizes contact and minimizes pad damage

High-quality industry benchmark 67 GHz cables

Long lifetime and consistent measurements



 Precise probe-to-pad alignment for small pads

Trinocular 6.7x stereo zoom scope with 20x eyepiece

- · Optimized field of view
- Accurate probe placement on small pads
- · Camera-ready

Dedicated RF chuck

Consistent measurement boundary conditions over entire wafer

Unique ceramic AUX site

Homogeneous and optimized calibration conditions

Solid and stable positioners

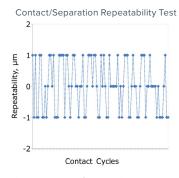
Accurate probe positioning, consistent contact force and overtravel

Verified calibration standards

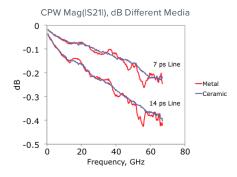
Accurate calibration, verification and measurement assurance

ACP Probes, FPC Probes, Infinity Probes or |Z| Probes

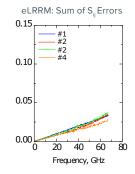
 Your choice of application-optimized probes for best measurement accuracy*



Consistent contact/separation movement



Optimal boundary conditions due to integrated ceramic AUX chuck



Highly repeatable LRRM calibration available from WinCalXE (included in package)

Ordering Information

Part Number Description

EPS200RF 200 mm manual probing solution* for RF applications

EPS200RF-LT 200 mm manual probing solution for RF applications, excluding cables, probes and

calibration substrate

EPS-ACC-200RF-4P 4-port option for EPS200RF package containing two RPP305 positioners and two N/S RF arms

* The EPS200RF manual probing solution includes: PM8 probe station with a 200 mm chuck stage, a tailored RF platen, contact height gauge, cast microscope bridge with 50 x 50 mm scope movement with tilt, stereo zoom microscope with 150x magnification and LED ring-light (camera-ready C-mount), vibration-isolation solution, special 200 mm RF chuck with ceramic AUX inlay, fine theta adjustment, two RP305 bolt-down positioners, full WinCal XE license, choice of two flexible Gore cables (67 GHz /90 cm, 50 GHz / 120 cm or 40 GHz / 120 cm), two 2.4 (f) - 2.92 (m) adapters, ProbePolish and contact substrate, probe cleaning brush, choice of two RF single-ended ACP Probes, IZI probes or Infinity probes at 40, 50 or 67 GHz, with one matching calibration substrate (ISS or CSR), and tools for operation and facility connection. The FPC probes require two adapters (P/N 104-913). Does not include instrument rack.

© Copyright 2022 FormFactor, Inc. All rights reserved. FormFactor and the FormFactor logo are trademarks of FormFactor, Inc. All other trademarks are the property of their respective owners.

All information is subject to change without notice

