

# Termination and Resistive Matching Probes



## Design Capture Form

Please fill out the form below and return it to FormFactor or your local representative.

Date		PO#	
Company		Requisitioner	
Buyer		Technical contact	
Shipping address			
City/State		Phone	
Country		FAX	
Postal code		Email	

For exact re-order, specify serial or PCN #

For new orders, please fill out information below.

### Probe Type:

<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>	
	FPC Single only		ACP Single or Dual		ACP Angled Single only		Infinity Vertical Single or Dual		Infinity Angled Single or Dual

### Tip Configuration:

Single:  GS  SG  GSG      Dual:  GSGSG  GSSG  SGS      Other: \_\_\_\_\_

Probe Pitch: \_\_\_\_\_  $\mu\text{m}$

### Configuration:

#### Single Signal Line Versions

<input type="checkbox"/>	Tip end		Connector end
<input type="checkbox"/>	Tip end		No connector on probe
<input type="checkbox"/>	Tip end		Connector end

Resistor Value for Series Matching Configurations **10 ohm**

Resistor Value for Termination Configurations

#### Dual Signal Line Versions

<input type="checkbox"/>	Tip end		Connector end
<input type="checkbox"/>	Tip end		No connector on probe
<input type="checkbox"/>	Tip end		Connector end

# Termination and Resistive Matching Probes

**Performance** (These types of probes are custom only with limited testing)

## Termination Probes

For probes that have the full RF connection path the typical recommended usable frequency range is 6-10 GHz. This limit is due to the parasitic capacitance of the high performance RF resistor.

## Resistive Matching Probes

Adding series resistor to the probe leaves FormFactor with no way to validate the RF performance. This is because no calibration standards exist, so the RF performance is purely best effort

## Testing Methodology

For probes that have the full RF connection path, they are built and tested as standard RF probes first, and then the Resistor is added. After adding the resistor only DC resistance measurement are performed. For versions with no RF connector/s only DC resistance measurements are performed.

## Construction

Resistors are placed as close as possible to the contacts (example illustration below).



Example: Termination probe



Example: Series resistive matching probe

## Additional Instructions

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