

# P7508 & P7513A TriMode Probes

## Manuals and Related Documentation

The P7500 Series TriMode Probe manuals that are included with your P7508 and P7513A probes contain all of the operating information necessary for you to use these probes. However, the probe connection to the DC calibration board is slightly different and is shown on the back of this sheet.

The information and specifications for the P7508 and P7513A probes in this sheet supersede the information in the *P7500 Series Technical Reference* on the Documentation CD.

Probe model	Characteristic	Probe only <sup>1</sup>	Probe with P75TLRST solder tip	Probe with P75PDPM adapter
P7508	Bandwidth	>8 GHz	>8 GHz	>8 GHz
	Rise time	10–90% 55 ps <sup>2</sup>	10–90% 55 ps	10–90% 55 ps
		20–80% 35 ps <sup>2</sup>	20–80% 35 ps	20–80% 35 ps
	CMRR	>60 dB at DC	>60 dB at DC	>60 dB at DC
		>40 dB to 50 MHz	>40 dB to 50 MHz	>40 dB to 50 MHz
		>30 dB to 1 GHz	>30 dB to 1 GHz	>30 dB to 1 GHz
		>25 dB to 4 GHz	>25 dB to 4 GHz	>25 dB to 4 GHz
		>20 dB to 8 GHz	>20 dB to 8 GHz	>20 dB to 8 GHz
	DMRR	>40 dB to 50 MHz	>40 dB to 50 MHz	Not applicable
		>30 dB to 1 GHz	>30 dB to 1 GHz	
>25 dB to 4 GHz		>25 dB to 4 GHz		
>20 dB to 8 GHz		>20 dB to 8 GHz		
Channel isolation	>40 dB to 50 MHz	>40 dB to 50 MHz	Not applicable	
	>30 dB to 1 GHz	>30 dB to 1 GHz		
	>20 dB to 4 GHz	>15 dB to 4 GHz		
	>12 dB to 8 GHz	>10 dB to 8 GHz		
Delay time	5.76 ns, ±0.1 ns			
P7513A	Channel isolation	>15 dB to 7 GHz		
		>8 dB to 13 GHz		
P7513A	Delay time	5.76 ns, ±0.1 ns		
P7508 & P7513A	Probe length	1.3 m (51.6 in) (End-to-end with no accessories attached)		
	DC Calibration Board and Socket Cable (standard accessories)	Board	Tektronix part number 067-1967-XX	
		Socket Cable	Tektronix part number 020-2954-XX	
	Optional accessories for the P7508 & P7513A probes	Antistatic wrist strap	Order Tektronix part number 006-3415-XX	
		Bullet removal tool	Order Tektronix part number 003-1896-XX	
Replacement bullets		Order Tektronix part number 013-0359-XX		

<sup>1</sup> Measurements taken using an embedded probe fixture and a 250 mV step @18 °C to 28 °C (64 °F to 82 °F).

<sup>2</sup> Warranted specification



### DC Calibration Board Connection

When you perform a functional check or DC calibration on the P7508 and P7513A probes, you must use the Socket Cable included with the probes to connect between the probe and the board. See the illustration below.

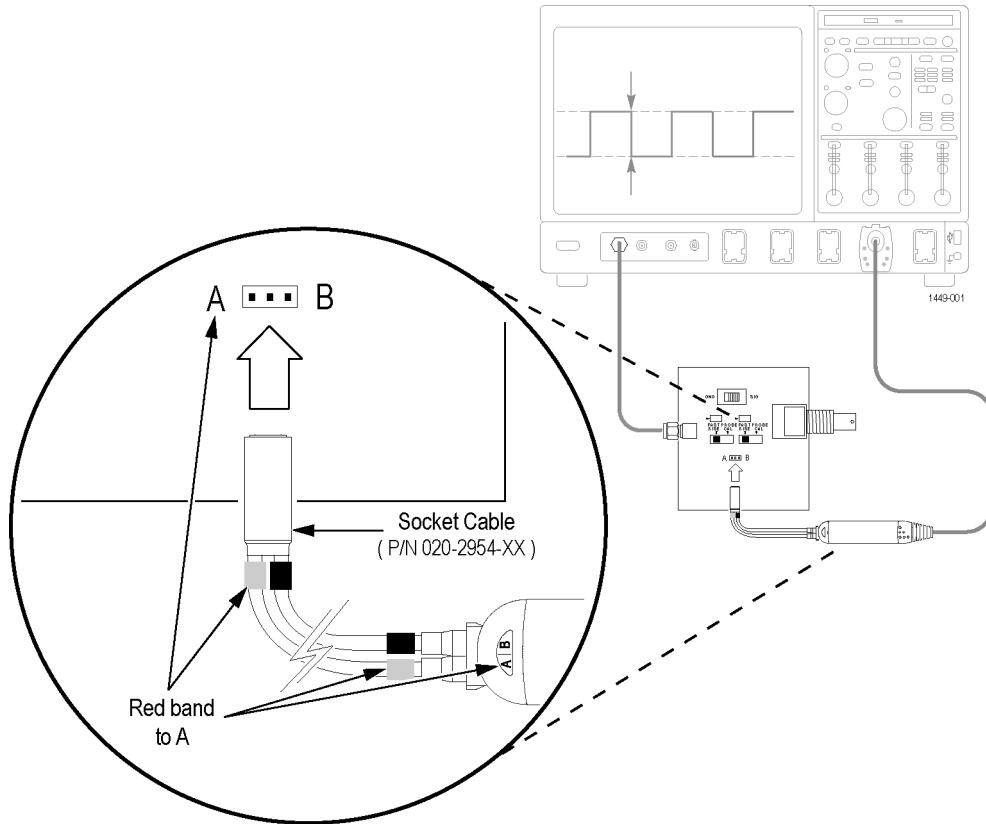


Figure 1: Connecting the P7508 and P7513A probes to the DC Calibration Board with the Socket Cable

For future reference, save this document with your probe documentation kit.