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Publication No. 980818-S-1845
MODEL 3162A-S-1845
December 5, 2001

The Racal Instruments Model 3162A-S-1845 (407627-012-S-1845) is the same as the standard model 3162A with these exceptions:

1. 10 MHz CLOCK IN connector has been disconnected
2. SCLK IN (Sample Clock Input) was connected
3. The "Reference Clock Input" has been deleted and a "Sample Clock Input" has been added in its place.
4. Add external sample clock input and label as required.

Modify the parts list as follows:

1. Add:

   R500 RES COMP 200 1/4W 5%
   R501 RES COMP 68 1/4W 5%

2. Delete:

   R84 RES COMP 47 1/4W 5%

Modify the front panel as follows:

1. Place a sticker "Sample Clock" on top of 10 MHz CLOCK IN
2. Place a sticker "ECL" on top of the TTL marking below the 10 MHz CLOCK IN connector

Modify the hardware using the following instructions:

1. Refer to the attached schematic drawing for the following modifications
2. Remove R84
3. Connect a coax wire from the Sample Clock In BNC to U 86 pin 4.
4. Connect 200Ω resistor from pin 19 to –5.2V
5. Connect 68Ω resistor from pin 19 to ground

Use the following command to control the source of the sample clock:

FREQuency:RASTer:SOURce {EXTernal | INTernal}

The default value for the sample clock source is INTernal.

The query:

FREQuency:RASTer:SOURce?

queries the sample clock source and returns INT for internal and EXT for external source.

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