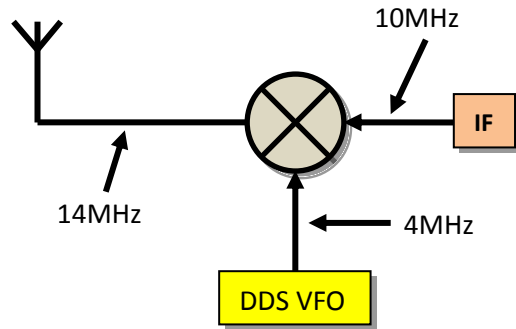
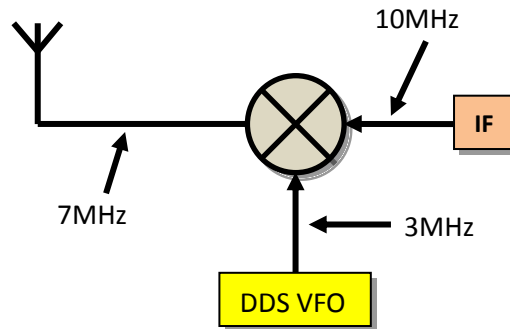


## How to configure the DDS VFO when used with the MST2



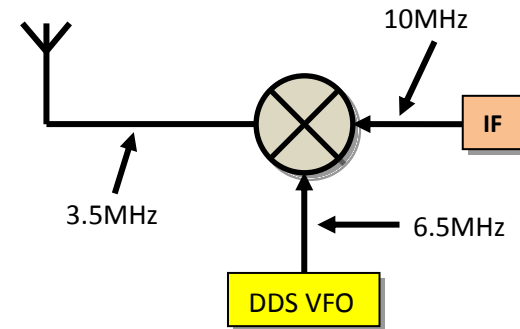
**Offset:  $DDS = TX - IF$**   
**IF Frequency: 09996000**  
**TX Frequency: 14000000**

### 20M USB



**Offset:  $DDS = IF - TX$**   
**IF Frequency: 09999000**  
**TX frequency: 07000000**

### 40M LSB



**Offset:  $DDS = IF - TX$**   
**IF Frequency: 09999000**  
**TX Frequency: 03500000**

### 80M LSB

#### Notes:

1. The mixing arrangement is different for 20M compared to 40M and 80M. In 20M the TX frequency is obtained by adding the DDS VFO to the IF frequency, while in 40M and 80M the TX frequency is obtained by subtracting the DDS VFO frequency from the IF frequency.
2. The IF Frequency setting shown above may need changing slightly to match the crystal filter frequency. This involves measuring the actual carrier frequency on the MST2 board and entering the value into the DDS VFO IF Frequency setting. See the MST2 construction manual for more details.
3. For USB the IF Frequency is on the low side of the crystal filter response, while for LSB the IF Frequency is on the high side of the crystal filter response.
4. During configuration the TX Frequency can be set to any frequency within the band of interest. In operation the TX Frequency will be overwritten to the current frequency by the 30 second frequency save function.
5. See the DDS VFO construction manual for detailed instructions on entering configuration parameters.