

## 6-2 PLL ADJUSTMENT

ADJUSTMENT		ADJUSTMENT CONDITIONS	MEASUREMENT		VALUE	ADJUSTMENT POINT	
			UNIT	LOCATION		UNIT	ADJUST
DDS CLOCK	1	<ul style="list-style-type: none"> <li>• Frequency display : 14.10000 MHz</li> <li>• USB mode</li> <li>• Receiving</li> </ul>	DDS	Connect the frequency counter to IC4 pin 11 or IC5 pin 11.	5.24288 MHz	DDS	C1
DDS LOOP	1	<ul style="list-style-type: none"> <li>• Frequency display : 8.00000 MHz</li> <li>• LSB mode</li> <li>• Receiving</li> </ul>	PLL	Connect the RF voltmeter to R100.	Maximum waveform	PLL	L46, L47
	2			Connect the oscilloscope to R201.	1.1 V DC		C226
HPL LOCK VOLTAGE	1	<ul style="list-style-type: none"> <li>• Frequency display : 7.99999 MHz</li> <li>• LSB mode</li> </ul>	PLL	Connect the oscilloscope to R6.	6.5 V DC	PLL	C11
	2	<ul style="list-style-type: none"> <li>• Frequency display : 14.99999 MHz</li> </ul>					C20
	3	<ul style="list-style-type: none"> <li>• Frequency display : 21.99999 MHz</li> </ul>					C29
	4	<ul style="list-style-type: none"> <li>• Frequency display : 29.99999 MHz</li> </ul>					C37
	5	<ul style="list-style-type: none"> <li>• Frequency display : 0.03000 MHz</li> </ul>			More than 2 V DC		Verify
	6	<ul style="list-style-type: none"> <li>• Frequency display : 8.00000 MHz</li> </ul>					
	7	<ul style="list-style-type: none"> <li>• Frequency display : 15.00000 MHz</li> </ul>					
	8	<ul style="list-style-type: none"> <li>• Frequency display : 22.00000 MHz</li> </ul>					
HPL OUTPUT	1	<ul style="list-style-type: none"> <li>• Frequency display : 8.00000 MHz</li> <li>• LSB mode</li> <li>• Receiving</li> </ul>	PLL	Connect the RF voltmeter to R107.	Maximum level	PLL	L48, L49
REFERENCE FREQUENCY	1	<ul style="list-style-type: none"> <li>• Frequency display : 8.00000 MHz</li> <li>• LSB mode</li> <li>• Receiving</li> </ul>	PLL	Connect the DC voltmeter to J2 pin 2.	3 V	HATCH COVER	[CALIBRATOR] control
	2			Connect the frequency counter to J4.	60.00000 MHz		PLL
2nd LO OUTPUT	1	<ul style="list-style-type: none"> <li>• Frequency display : 8.00000 MHz</li> <li>• LSB mode</li> <li>• Receiving</li> </ul>	PLL	Terminate P4 to ground with a 50 Ω resistor. Connect the RF voltmeter to P4.	More than -10 dBm	PLL	L50, L51