

CLASSIFICATION UNCLASSIFIED					PAGE 3 of 7	
RECEIVER EQUIPMENT CHARACTERISTICS						
1. NOMENCLATURE, MANUFACTURER'S MODEL NO. (U) AN/PPS-5D Receiver				2. MANUFACTURER'S NAME (U) Syracuse Research Corporation		
3. RECEIVER INSTALLATION Transportable				4. RECEIVER TYPE (U) Pulse Doppler		
5. TUNNING RANGE 16.21 GHz - 16.50 GHz				6. METHOD OF TUNING (U) Synthesized		
7. RF CHANNELING CAPABILITY (U) 16.21 GHz, 10 MHz increments				8. EMISSION DESIGNATOR(S) (U) 2M35Q3N LFM (U) 5K78Q0N Simple Pulse (U) 1K46Q3N LFM		
9. FREQUENCY TOLERANCE (U) 35 ppm						
10. IF SELECTIVITY	1ST	2ND	3RD	11. RF SELECTIVITY <i>(X and complete as applicable)</i> ☒ CALCULATED ☐ MEASURED		
a. -3 dB	500 MHz	750 KHz	N/A	a. -3 dB (U) 1.3GHz		
b. -20 dB	1000 MHz	1800 KHz	N/A	b. -20 dB (U) 3.12 GHz		
c. -60 dB	2000 MHz	10500 KHz	N/A	c. -60 dB (U) 18.2 GHz		
12. IF FREQUENCY				d. PRESELECTION TYPE (U) Cavity		
a. 1 ST (U) 1.5 GHz				13. MAXIMUM POST DETECTION FREQUENCY (U) 750 KHz		
b. 2 ND (U) 750 KHz				14. MINIMUM POST DETECTION FREQUENCY		
c. 3 RD (U)				(U) N/A		
15. OSCILLATOR TUNED	1ST	2ND	3RD	16. MAXIMUM BIT RATE (U) N/A		
a. ABOVE TUNED FREQUENCY				17. SENSITIVITY		
b. BELOW TUNED FREQUENCY	X	X		a. SENSITIVITY (U) -100.4 dBm		
c. EITHER ABOVE OR BELOW TUNED FREQUENCY				b. CRITERIA (U) 13 dB SNR		
18. DE-EMPHASIS <i>(X one)</i> ☐ a. Yes ☒ b. No				c. NOISE FIG (U) 4 dB		
				d. NOISE TEMP (U) N/A Kelvin		
19. IMAGE REJECTION (U) 30 dB				20. SPURIOUS REJECTION (U) 50 dB		
21. REMARKS (U) Item 8: The signal is de-chirped after the second IF stage with the use of digital signal processing.						
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