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TRANSMITTER EQUIPMENT CHARACTERISTICS			
1. NOMENCLATURE, MANUFACTURER'S MODEL NO. (U) VNTXL-2A/SC232/DP/F/S		2. MANUFACTURER'S NAME (U) L-3 Southern California Microwave	
3. TRANSMITTER INSTALLATION (U) Aircraft		4. TRANSMITTER TYPE (U) FM Video and data	
5. TUNING RANGE (U) 1710 MHz - 1850 MHz		6. METHOD OF TUNING (U) Synthesizer	
7. RF CHANNELING CAPABILITY: (U) see remarks		8. EMISSION DESIGNATOR (U) 18M5F9W (U) (U)	
9. FREQUENCY TOLERANCE: (U) 20 ppm			
10. FILTER EMPLOYED (U) <input checked="" type="checkbox"/> a. YES <input type="checkbox"/> b. NO			
11. SPREAD SPECTRUM (U) <input type="checkbox"/> a. YES <input checked="" type="checkbox"/> b. NO		12. EMISSION BANDWIDTH <input type="checkbox"/> CALCULATED <input checked="" type="checkbox"/> MEASURED	
13. MAXIMUM BIT RATE (U) 20k bps		a. -3 dB (U) 2.4 MHz (U) (U)	
		b. -20 dB (U) 14.8 MHz (U) (U)	
		c. -40 dB (U) 26.0 MHz (U) (U)	
		d. -60 dB (U) 38.0 MHz (U) (U)	
		e. OC-BW (U) 14.0 MHz (U) (U)	
14. MODULATION TECHNIQUES AND CODING (U) FM analog video with FM data subcarrier at 7.5 MHz. (See Remarks)		15. MAXIMUM MODULATION FREQUENCY 7.575 MHz	
16. PRE-EMPHASIS (U) <input checked="" type="checkbox"/> a. YES <input type="checkbox"/> b. NO		17. DEVIATION RATIO (U) 1.0	
		18. PULSE CHARACTERISTICS: N/A	
19. POWER		a. RATE (U) NA (U) (U)	
a. MEAN (U) 2 W (U) (U)		b. WIDTH (U) NA (U) (U)	
b. PEP (U) (U) (U)		c. RISE TIME (U) NA (U) (U)	
20. OUTPUT DEVICE (U) Solid State Transistor		d. FALL TIME (U) NA (U) (U)	
		e. COMP RATIO (U) NA (U) (U)	
		21. HARMONIC LEVEL	
22. SPURIOUS LEVEL (U) -80 dBC		a. 2nd (U) -60 dBC	
		b. 3rd (U) -80 dBC	
23. FCC TYPE ACCEPTANCE NO. (U) N/A		c. OTHER (U) -80 dBC	
24. REMARKS (U)			
<p>7. "1710 MHz, 10kHz increments, 4 frequencies will be software selected: 1710,1760,1790,and 1839 MHz."</p> <p>8. The necessary bandwidth figure with the emission designator was calculated based upon NTIA Annex J (Bn = 2M + 2DK), K=1.0, M=7.575, D=1.6 MHz (visual) + .075 MHz (data subcarrier)= 1.675 MHz. So Bn = 2(7.575) + 2(1.675) (1) = 18.5 MHz.</p> <p>10. Internal 7-pole Chebychev low pass filter between the output device and the antenna connector. Approximately 0.5 dB insertion loss with 30 dB attenuation at two times the transmit frequency.</p> <p>13. The maximum-bit rate shown is for the digital FM data sub-carrier.</p> <p>14. There will be one FM data subcarrier at 7.5 MHz offset from the carrier frequency. It is wholly separated from the video stream.</p> <p>15. Maximum modulation frequency value includes the data sub-carrier.</p>			
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