



ARC-620/E Airborne Radio Communication System



Audio frequency response	300 to 3400 Hz
Side tone	in the AM mode: audio sampling from the antenna RF output signal In the FM and ECCM modes: control signal sampling from the antenna RF output signal
Harmonic rejection	better than -55dBc
Spurious signals	better than -80dBc
Output power stability	up to VSWR<2.5 against mismatch
Receiving specifications	
Receiving sensitivity	AM mode: -103dBm for more than 10dB SINAD in detecting the 1KHz signal modulated with 30% modulation factor FM mode: -108dBm for more than 10dB SINAD in detecting the 1KHz signal modulated with 2.5KHz deviation ECCM mode: -90dBm for maximum 4×10^{-2} bit rate error
Squelch sensitivity	setting the squelch ON/OFF point is accomplished in the range of 5 to 25dB output SINAD
Image frequencies rejection	-80dB
IF frequency rejection	-80dB
Selectivity	WIDEBAND: spurious signal rejection for ± 25 KHz frequency offset is at least 60dB NARROWBAND: spurious signal rejection for ± 12.5 KHz frequency offset is at least 40dB
Audio distortion	maximum 5%
Audio frequency response	300 to 3400 Hz
Receiver input protection	Receiver input is protected against applying 1W (+30dBm) signal in/out of the band permanently
Environmental Specifications	
Operating temperature	-40°C to +65°C
Humidity	according to the MIL-STD-810F method (4 and 507)
Vibration test	casual vibration in the range of 15~2000Hz for T/R with 0.03g ² /Hz vibration amplitude in the range of 300 to 1000 Hz according to the MIL-STD-810F
Mechanical shock test	according to the IDS810-17 and IDS1371 Iran Defense Standard
Electromagnetic compatibility	MIL-STD-461E
Height test	according to the IDS810-17 and IDS1371 Iran Defense Standard