



DESCRIPTION

S72-1712-9: The ADF ARINC 712 digital receiver uses a combined loop/sense antenna for operation with the digital ADF receiver incorporated in the shell. A test loop feature is provided on pin numbers 15 & 16. The ferrite loop is a unique rugged design that provides repeatable bearing accuracy. Compatible with Allied Signal and Collins ARINC 712 specs. The baseplate radius is 66 inches (1676 mm) for DC-9 and MD-80 installations.

FEDERAL & MILITARY SPECS: ARINC-712, DO-160A, MIL-E-5400, FAA TSO-C41c.

SPECIFICATIONS	
MODELS	S72-1712-9
ELECTRICAL	
Frequency	190-1750 KHz
VSWR	1.2:1
Output Impedance (±5%)	78 ohms balanced 1 M ohms to ground min.
Power	±12 V / 150 MA (max)
Radiation Pattern	Omni Directional
Bearing Accuracy	Better than 0.4°
Effective Height (±10%)	Sense: 0.03 meter Loop : 190 KHz 0.023 meter 577 KHz 0.038 meter 1750 KHz 0.023 meter
Loop Resonance Freq (±5%)	577 KHz
Loop Operating Q (±10%)	0.5
Loop Amplitude Tracking	0.25 dB
Loop Phase Characteristics	±8° of (90-2 TAN ⁻¹ f/577)
Noise Output into 78 ohm	Sense: 3.3 nV / √Hz max. Loop: 8.0 nV / √Hz max.
MECHANICAL	
Weight	8.8 lbs. / 4.0 Kg.
Height	1.77 in. (45.0 mm)
Length	30 in. (762 mm)
Width	10.62 in. (270 mm)
Material	Glass-reinforced Thermoplast
Finish	Skydrol-resistant polyurethane
Connector	M83723-72R 2016 N
ENVIRONMENTAL	
Temperature	-65° C (-85° F) to +90° C (+194° F)
Vibration	10 G's RMS-Random
Altitude	50,000 ft.

