ADF Antenna **S72-1712-8**





Please Note: For REFERENCE ONLY Contact Sensor Systems for latest drawing

Description

S72-1712-8: The ADF ARINC 712 digital receiver uses a combined loop/sense antenna for operation with a digital ADF receiver incorporated within the radome. The ferrite loop is a unique design that provides repeated bearing accuracy. A test loop feature is provided on pin numbers 15 & 16. Baseplate radius of 77.7 inches. The unit features installed captive screws. Gloss white enamel finish.

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

Specifications

Electrical	
Frequency	190-1750 KHz
VSWR	≤ 1.3:1 (190-1000 MHz); ≤ 1.5:1 (1000,1750 I
Output Imepdance (±5%)	78 Ohms balanced
	1 M Ohms to ground min.
Power	± 12V, 150 mA. (Max.)
Pattern	Omnidirectional
Bearing Accuracy	Better than 0.4°
Effective Height (±10%)	Sense: 0.03 meter
	Loop: 0.23 meter (190 KHz)
/ _ /	0.038 meter (577 KHz)
	0.023 meter (1750 KHz)
Loop Resonance Freq. (±5%)	577 KHz
Loop Operating Q (±10%)	0.5 KHZ
Loop Amplitude Tracking	0.25 dB
Loop Phase Charact.(s)	$\pm 8^{\circ}$ OT (90-2 TAN-1 1/577)
Noise Output Into 7802	
Mechanical	Loop. 8.0 HV / VHZ Max.
Weight	8.8 lbs.
Height	1.77 in.
Length	30 in.
Width	10.62 in.
Material	Thermoset Plastic

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Finish	Skydrol Resistant Enamel
Connector	M83723-72R 2016N
Environmental	
Temperature	-65°C (-85°F) to +90°C (194°F)
Altitude	55,000 ft.

