



## DM N102-1-1 GPS ANTENNA

AIL's DM N102-1-1 GPS antenna has been designed to meet ARINC 743A active antenna requirements and takes advantage of the latest in microstrip and microcircuit technology.

Among the DM N102-1-1 key features are its lightning protection (Direct Strike) and enhanced filtering configured to suppress interference from other L-Band Systems such as Inmarsat.

DC bias is provided through the RF Coaxial Connector. Complies with Boeing specification S242T104.

### SPECIFICATIONS

ELECTRICAL	Frequency Range	1575.42 $\pm$ 10 MHz
	VSWR	2.0:1
	Polarization	RHCP
	Impedance	50 Ohms
	Gain Coverage (min)	-1.0 dBic $0^\circ \leq \theta \leq 75^\circ$ -2.5 dBic $75^\circ \leq \theta \leq 80^\circ$ -4.5 dBic $80^\circ \leq \theta \leq 85^\circ$ -7.5 dBic $\theta = 90^\circ$ at Horizon
	Gain (preamp)	33.0 $\pm$ 3 dB
	Noise Figure	2.0 dB
	Power Handling	1 watt
	Voltage	+12 Vdc
	Current	100 mA max
	Lightning Protection	DC grounded
MECHANICAL	Connector	TNC
	Weight	1 lb max
	Finish (Radome)	Skydrol-resistant, polyurethane, gloss white
	Finish (Base)	Chemfilm MIL-C-5541
	Specifications	ARINC 743A, D0-160, TSO C129a, Boeing S242T104

All data contained herein is subject to change without notice.

1000-122 (M73)

# NAVIGATION

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### OUTLINE DIMENSIONS

Inches

