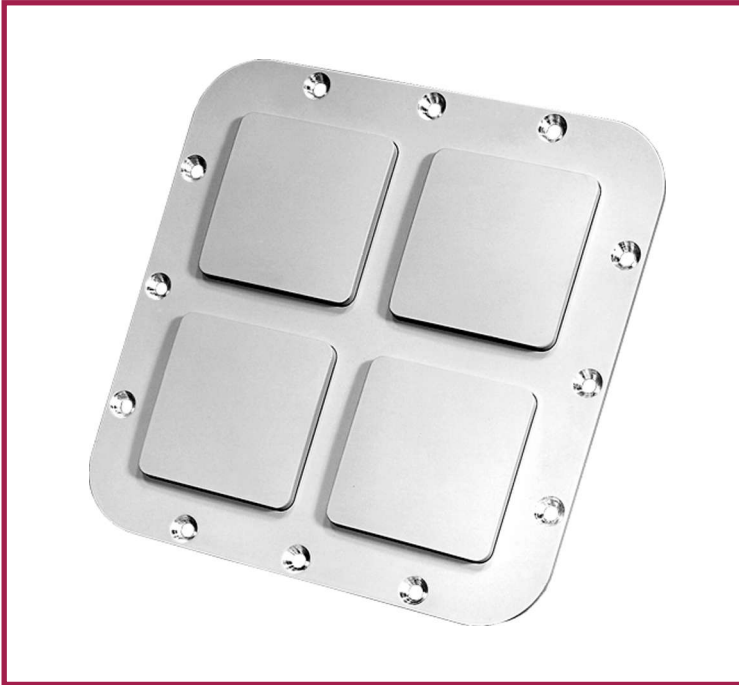


## DM N100-1 GPS ANTENNA



The newly introduced DM N100-1 GPS antenna has been designed to provide a reduced size aperture for Antijam GPS reception over the full military GPS bandwidth. While fully compliant with GAS-1N requirements, the DM N100-1 footprint is a mere 7.0" x 7.0" x 1.0". The antenna assembly is a four-element antenna aperture which is designed to receive right-hand circularly polarized (RHCP) radiated signals from NAVSTAR GPS satellites and couple the radio frequency (RF) signal to the antenna electronics (not supplied by AIL/DM) via four coaxial cables. The antenna assembly contains the antenna elements, radome, housing, SMA female bulkhead connectors, and 10' removable coax cables that interconnect the antenna assembly to the antenna electronics.

Microstrip patch type radiators provide a low-profile package while a hybrid feed incorporated in each element allows operation over a wide temperature band without the temperature induced detuning often associated with microstrip patch elements, and provides for operation over the full military bandwidth without any pattern degradation. The four-element array is used to adaptively steer nulls in the presence of interfering jamming signals, when used in conjunction with interference cancellation hardware.

### SPECIFICATIONS

ELECTRICAL	Frequency Range	1227.6 ± 10.23 MHz 1575.42 ± 10.23 MHz
	VSWR	2.0:1
	Gain	-3.5 dBic over 160° cone
	Polarization	RHCP
	Null Depth	>20 dB
	TX Power	Receive Only
	Radiation Pattern	Hemispherical
MECHANICAL	Weight	1.5 lbs
	Military	MIL-E-5400 MIL-STD-202 MIL-STD-810

Specifications subject to change without notice.

1099-267(M20)

# NAVIGATION

## DM N100-1 GPS ANTENNA

### OUTLINE DIMENSIONS

Inches

