

# NI24 and NI29 Series L-Band Antenna

These L-Band blades utilize a new concept of antenna design and manufacture which makes them ideal for commercial as well as military application. The radiating element is encapsulated in an epoxy dielectric body by a transfer molding process. This simple design has several notable advantages

**MOISTURE PROOF.** The antenna is impervious to moisture penetration either by direct immersion or by extended exposure to high-humidity conditions.

**RUGGED DESIGN.** The interlocked mounting base and radiating element, molded into the dielectric body, are a completely unified, integral, and rugged assembly.

**ECONOMY.** The molding process is a high-production technique, substantially reducing antenna cost.

The antennas have been used with various equipment such as DME, IFF, TACAN, TELEMETRY, and BEACON. The NI29-15, NI29-19, and NI29-18, have been designed to provide ideal performance for various Flight-Fone Systems. Extremely broad frequency bands are provided, within the overall 500 – 2000 MHz range. Some models are provided with a BNC female test probe for preflight checkout.



SPECIFICATIONS FOR: **NI24 AND NI29 SERIES L-BAND ANTENNA**

ELECTRICAL			
Frequency Range	Selected frequencies within 500 – 2000 MHz		
VSWR	Less than 5:1		
Gain	Typically within 0.5 dB of a matched $\lambda/4$ stub		
Polarization	Vertical		
Radiation Patterns	Consult with Factory		
dc Resistance	The blades except the NI24-19 and the NI29-11 are a open dc circuit at the feed point. The dc resistance of the probe (if provided) is approximately 110 ohms. The NI24-19 and NI29-11 blades are dc shorted.		
Power Handling	100 W avg, 4.0 kW peak		
MECHANICAL			
Weight (with test probe)	6 oz. 8 oz.		
ENVIRONMENTAL			
Drag			
Sea level, Mach 0.5	13 oz.		
Sea level, Mach 0.8	30 oz.		
Military (with test probe)	MIL-E-5400 MIL-A-25708	MIL-A-7272	MIL-G-5272
ARINC (DME) (ATC Transponder)	521 DV 532 D		
FAA (DME) (ATC Transponder) N129-14 TSO	TSO-C66 TSO-C74 ENV. CAT. ABAXXXCL1 TSO-C66 TSO-C74 ENV. CAT. ABAXXXCL1		

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INCHES (CENTIMETERS)

Consult with factory for mounting specifications.

FLORIDA | NEW YORK | VIRGINIA | BRAZIL | UNITED KINGDOM | UAE | SINGAPORE

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