20 MHz–6 GHz Omnidirectional Fiberglass Antenna



LCANT-20-6000-2 covers 20 MHz–6 GHz with 360° horizontal coverage and vertical polarization. Its stated gain range is −6 to 2 dBi; the upper value is not a uniform gain across the band. The vertical beamwidth is 55±10°, and VSWR is ≤2.5.

The matte-black fiberglass radome measures Φ40 × 600 mm and uses the source-designated embedded N-J connector. Bench or equipment mounting is specified, with DC grounding, −30 to +65 °C operation and 10–95% humidity. Check mounting clearance and connector mating against the actual equipment.

Electrical specifications

Parameter	Value	Unit
Frequency range	20–6000	MHz
Antenna gain	−6–2	dBi
VSWR	≤2.5	-
Polarization	Vertical	-
Horizontal beamwidth	360	°
Vertical beamwidth	55±10	°
Pattern roundness (source: ovality)	±2	dB
Input impedance	50	Ω
Maximum input power	100	W
Antenna connector	N-J, embedded type	-
Lightning protection	DC grounding	-

Mechanical and environmental specifications

Parameter	Value	Unit
Antenna dimensions	Φ40 × 600	mm
Packing dimensions	660 × 360 × 190 / 425 × 345 × 220 (Two packaging sizes are listed; applicability is not distinguished.)	mm
Antenna weight	0.5±0.1	kg
Operating humidity	10–95	%
Radome color	Matte black	-
Radome material	Fiberglass	-
Operating temperature	–30–+65	°C
Installation method	Bench / equipment-mounted	-

Document notice

Specifications are subject to revision. Before design release, confirm the current document revision and product-specific requirements with LCRF. The approved quotation and order documentation define the supplied configuration.