

20 MHz–6 GHz Omnidirectional Fiberglass Antenna

Vertically polarized, 50 Ω omnidirectional antenna with –6 to 2 dBi gain, VSWR $\leq$ 2.5 and 100 W maximum input power.



Electrical specifications

Parameter	Value	Unit
Frequency range	20–6000	MHz
Antenna gain	–6–2	dBi
VSWR	$\leq$ 2.5	-
Polarization	Vertical	-
Horizontal beamwidth	360	°
Vertical beamwidth	55 $\pm$ 10	°
Pattern roundness (source: ovality)	$\pm$ 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	Φ 40 $\times$ 600	mm
Packing dimensions	660 $\times$ 360 $\times$ 190 / 425 $\times$ 345 $\times$ 220 (Two packaging sizes are listed; applicability is not distinguished.)	mm
Antenna weight	0.5 $\pm$ 0.1	kg
Operating humidity	10–95	%
Radome color	Matte black	-
Radome material	Fiberglass	-
Operating temperature	–30–+65	°C
Installation method	Bench / equipment-mounted	-

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Integration notes

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 $55\pm 10^\circ$, and VSWR is ≤ 2.5 . The matte-black fiberglass radome measures $\Phi 40 \times 600$ 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.

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.