

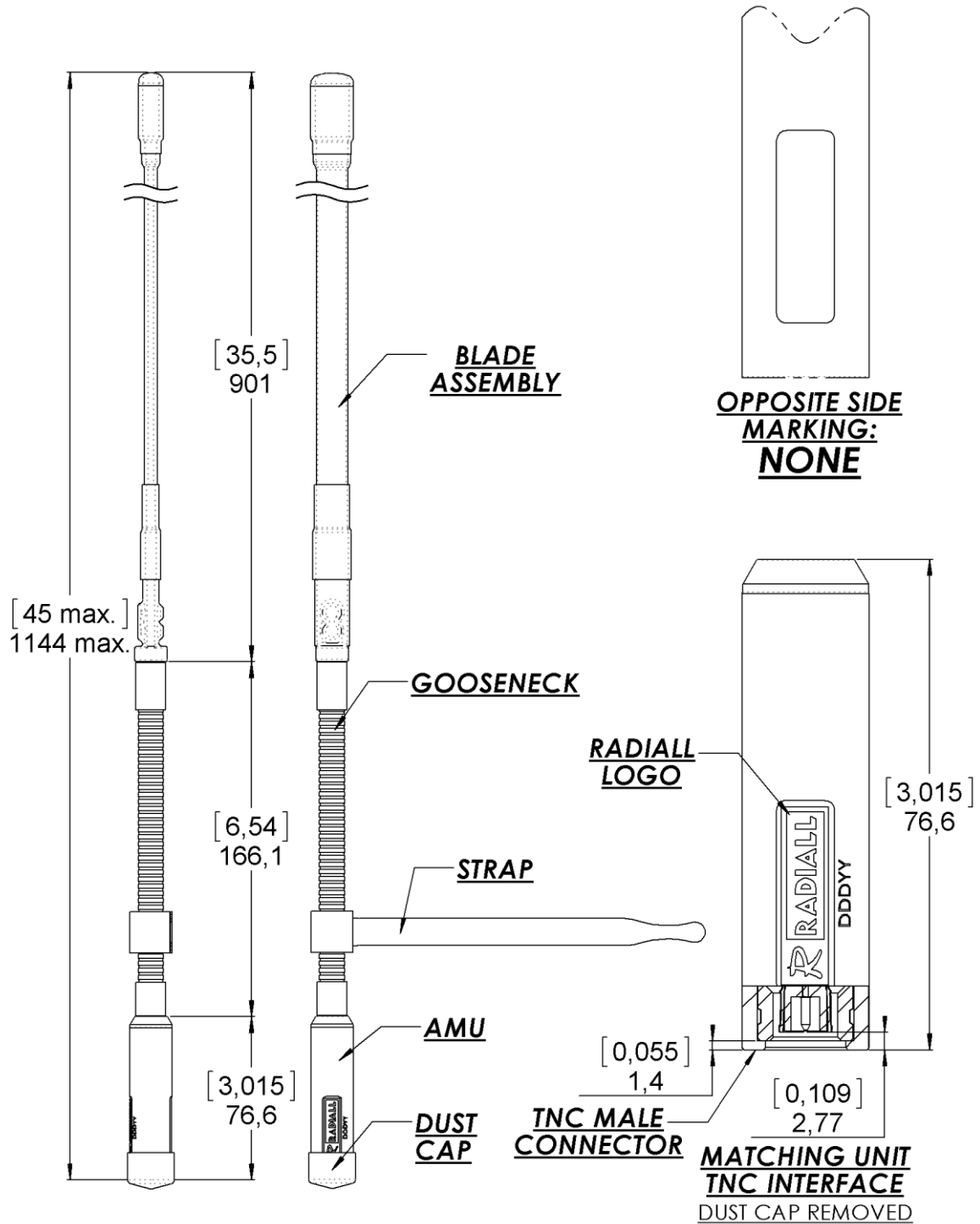
MANPACK BLADE ANTENNA

30 - 108 MHZ 15W

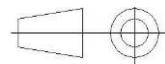
R380.000.153

Series : ANTENNA

Scale 1 : 3



All dimensions are in mm



Issue : 18-02-16C

In the effort to improve our products, we reserve the right to make changes judged to be necessary.



MANPACK BLADE ANTENNA**30 - 108 MHZ 15W****R380.000.153**

Series : ANTENNA

ELECTRICAL CHARACTERISTICS

(Measurement on manpack radio 7 x 17 x 20 cm)

Frequency :	30-108 MHz
Nominal Impedance :	50 Ω
VSWR :	3.5:1 Max
Peak Gain :	-1 dBi
Radiation Pattern	
Horizontal Plane ($\Theta=90^\circ$):	Omni-directional
Vertical Plane ($\Phi=0^\circ/90^\circ$):	Dipolar
Polarization :	LINEAR VERTICAL
Power Handling :	15 W *
Connector type :	Male TNC

MECHANICAL CHARACTERISTICS

Antenna Color :	MATTE BLACK
Matching Unit Material: .	Polyurethane DESMOPAN 345
Matching Unit Texture : .	Mold-Tech MT 11030
Matching Unit Length : ..	76.6 mm
Blade Material :	Stainless Steel
Blade Flex Test :	500 Cycles
	0-180° Around Ø10 mm
Gooseneck Flex :	500 Cycles
	0-90° Around Ø150 mm
Gooseneck Stiffness :	Horizontal, 0.73 w/o Deflection Kg
	Horizontal, 0.997 w/ 45° Deflection
	Bent 90°, 0.54 w/ 45° Deflection
Weight (antenna):	0.3 Kg max
Overall length :	~1144 mm

* Depending on customer's usage or application

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ENVIRONMENTAL CHARACTERISTICS

Operating Temperature :.	-31/+60 °C MIL -STD-810E, Methods 501.3 & 502.3, Procedure II
Storage Temperature :.....	-33/+71 °C MIL-STD-810E, Methods 501.3 & 502.3, Procedure I
Humidity (Non-condensing) :.....	95% Relative Humidity Through Operating Temp range MIL-STD-810E, Methods 507.3 & 502.3, Procedure III
Shock :	20g Peak Acceleration 11ms Duration MIL-STD-810E, Method 516.4, Procedure I
Drop Test :	1 Meter Top & Sides onto Concrete Floor
Immersion :	20 Meters (sea water) 2 Hrs
Vibration :	10-30Hz Frequency range1 0.38mm Amplitude 0.76mm Excursion 30-60Hz Frequency range2 0.19mm Amplitude 0.38mm Excursion 5 Minutes Duration 3 Times each 3 Principal Axes Times
Altitude (Operational) :...	10440 meters MIL-STD-810E, Method 500.3, Procedures I & II

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