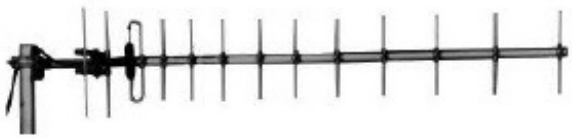
12 element Yagi 370-400 MHz, low PIM



DESCRIPTION

A 12-element UHF Yagi antenna for PMR/Trunked Radio and Broadcast applications that carries approval to MPT1411 for UHF Telemetry. Antennas in this range are carefully designed to provide low passive intermodulation to minimize network interference. Produced to the highest quality standards these robust antenna designs will ensure reliable operation in harsh environmental conditions.
• Former Jaybeam brand product.

SPECIFICATIONS

Electrical	
Frequency	370 - 400 MHz
Max. Input Power	150 W
Polarisation	Linear (Vertical or Horizontal)
3 dB Beamwidth, E-Plane	33 °
3 dB Beamwidth, H-Plane	36 °
Impedance	50 Ω
Gain	12 dBd (14.2 dBi)
VSWR	< 1.5:1
Front-To-Back Ratio	> 20 dB
Passive Intermodulation	-143dBc (3rd Order, 2 x Tx @ 43dBm)
Antistatic Protection	All metal parts DC-grounded (Connector shows a DC-short)

Mechanical	
Connection(s)	7/16(f) on 3m RG214/U cable
Materials	Boom, 32 mm dia. aluminium elements, 12.7 mm dia. aluminium balun, Fully moulded enclosure
Length	2570 mm / 101.18 in.
Wind Load	167 N (160km/h)
Weight	6 kg / 13.23 lb
Mounting Bracket	3202078/68 + 3201079/00 (Ordered Separately)
Alternate Mounting Bracket	0900912/00, 0302032/68, or 0300064/00 + U-Bolts to match mounting pipe diameter (Ordered Separately)
Mounting Accessories	0900018/00 Trombone 2-point mount

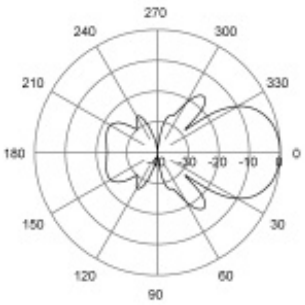
Environmental	
Survival Wind Speed	162 km/h

ORDERING

Model	Product No.	Frequency
12 element Yagi 370-400 MHz, low PIM	7014385	370 - 400 MHz
Galvanised steel crossover bracket 32/50mm	0900912/00	
Pressed steel cross clamp 2" x 1-1/4" (JBL73)	0302032/68	
Cast aluminium cross clamp, circular	0300064/00	
M8 x 50mm (2") U-Bolts (1 Pair)	4884036/00	
M8 x 75mm (3") U-Bolts (1 Pair)	4884076/00	
Fixed norstel / coupler clamp (cross clamp)	3202078/68	
Increasing sleeve	3201079/00	

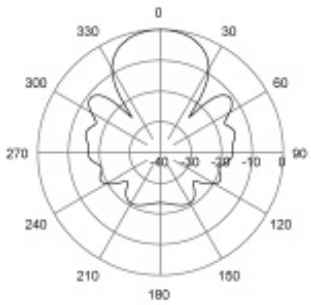
DIAGRAM

RADIATION PATTERNS



E-Plane | 385 MHz

RADIATION PATTERNS



H-Plane | 385 MHz

PROCOM A/S reserves the right to
amend specifications without prior notice