UAVSale

S-band Dual Polarization Doppler Weather Radar

MD-P00760 · md-s-band-dual-polarization-doppler-weather-radar

1 S-band Dual Polarization Doppler Weather Radar BM-100

TECHNICAL SPECIFICATIONS

category	project / technical indicators / Remark
Radome	Working frequency band (MHZ) / 2700-3000 _ _ /
diameter (m)	11.9 / fiberglass foam plastic
RF Loss (two-way dB)	0.3 / multi-layer structure
Introduced beam bias (degrees)	0.03 /
Introduced beamwidth broadening (degrees)	0.03 /
Wind resistance (m/s)	60 / gust
Antenna	shape / paraboloid of revolution /
Reflector diameter (m)	8.54 /
Gain (dB)	45 /
Beamwidth (degrees)	0.99 /
First side lobe level (dB)	-29 /
Far zone sub- lobes (dB)	-42 /
Polarization mode	linear level /
Servo unit	Antenna control word length (bit) / 13 /
Antenna scan mode	PPI , RHI , volume orientation / programmable control,
Antenna scanning speed (degrees / second)	36 (max) / Manual or operator control with priority
Maximum acceleration (degrees / second2)	15 /
Antenna control accuracy (degrees)	0.1 /
Antenna positioning accuracy (degrees)	0.2 /
Antenna pitch range (degrees)	-1 - +92 /
Transmitter	type / Fully Coherent Amplification Chain / Klystron Final Amplifier
Working frequency (MHz)	2700-3000 /
Peak Power (KW)	650 /

Transmit pulse width (uS)	1.57 , 4.71 /
Pulse repetition frequency (Hz)	318-1304 _ _ /
Receiver	IF Frequency (MHz) / 57.5491 /
Dynamic range (dB)	Log 94 /
Noise figure (system) (dB)	4.0 /
Signal processor	Strength Estimation Method / bearing and distance integration / Programmable 32 -bit DSP chip
speed estimation method	PPP /
warehouse chief	250 meters and multiples / 5th order elliptic filter
Stock number	512 / 4 - 6 passband width optional
Ground debris suppression ability	Better than 50dB /
RDA monitoring	RDA status monitoring / /
real-time display Archive A	base data /
Product generation	product generation / /
Archive B	Base Data and Products /
Product display	product request / /
Strength measurement distance	240km;

CERTIFICATION

Certification status is confirmed per order and is not published in the catalogue listing. Request the current declaration, test reports or conformity certificates from our sourcing team.

ORDERING INFORMATION

Model	S-band Dual Polarization Doppler Weather Radar
Part number	MD-P00760
Lead time	30 days
Minimum order	1 unit
Supply	made_to_order

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