OW70L-Dac RF Specification

Item	Specification
Rx Frequency	Rx : 10.7 ~ 12.7 GHz
Rx Gain (Wthout Radome)	Rx: 36.0dBi
G/T (@ 11.8 GHz, @ >30deg. EL)	12.2 dB/K
Tx Frequency	Tx : 14.0 ~ 14.5 GHz
Tx Gain (Without Radome)	Tx:38.4dBi
EIRP	36.6 dBW / 40 MHz (dual carrier) 33.6 dBW / 20 MHz (single carrier)
Cross pol Isolation	Min 20 dB (Antennas Field of view)
Polarization	Circular (Rx: RHCP, Tx: LHCP)

OW70L-Dac System Specification

Intellian

Item		Specification
Platform		Three Axis: Azimuth, Elevation, Cross-level
Azimuth Range		-300° to +300°
Elevation Range		-59° to +59° (FOV -53° to +53°)
Cross-Level Range		-10° to +10°
Power Consumption		Primary: 76 W average, 80W peak Secondary: 76 W average, 80W peak
CNX	Input Voltage	Min. 52, Max. 59V
	Operating Power	Max. 30W
	Output Voltage	Max. 0.5V
	Output Power	Max. 220W
Tx Cable		LMR 400: Tx IF + 25 MHz reference signal
Rx Cable		LMR 400: 2GHz IF + Power
Ethernet Cable		CAT5

OW70L-Dac Mechanical Specification

Intellian

Item		Specification	
		Primary	Secondary
Radome Height		770 mm (30.3”)	770 mm (30.3”)
Radome Diameter		Ø845mm (33.3”)	Ø845mm (33.3”)
Reflector Size		73cm (28.7”)	73cm (28.7”)
Antenna Weight		33 kg 33.6 Kg (Heating Module Pre-installed)	32 Kg 32.5 kg (Heating Module Pre-installed)
Package (Single Stack)	Size (W x D x H)	900 mm x 900 mm x 1070mm	
	Weight	64 kg 66 kg (Heating Module Pre-installed)	61 kg 63 kg (Heating Module Pre-installed)
Package (Double Stack)	Size (W x D x H)	900 mm x 900 mm x 1070mm	
	Weight	125 kg 129 kg (Heating Module Pre-installed)	

OW70L-Dac Environmental Specification

Item	Specification
Operational Temperature	-40°C ~ +55°C (w/ Heating Module) -25°C ~ +55°C
Survival Temperature	-40°C ~ +80°C
Storage Temperature	-40°C ~ +85°C
Operational Humidity	Relative humidity range of 10% to 100% non-condensing in accordance with IEC60068-2-78 for a period of 96 hours.
Non-Operational Humidity	IEC 60068-2-41 Method Db for a period of 4 hours.
Operational Vibration	IEC 60068-2-64, .001 - .02 PSD, slope +12, 5 to 10 Hz .02 PSD, slope 0, 10 to 50 Hz .02 - .001 PSD, slope -12, 50 to 100 Hz
Non-Operational Vibration	IEC 60721-3-4, Class 4M3 3.0 mm peak (+/- 1.5) (2-9 Hz) 5 m/s2 (9-200 Hz) IEC 60068-2-6 with test duration of 5 sweeps per each of the 3 axes.
Operational Shock	IEC 60068-2-27
Non-Operational Shock	IEC 60068-2-27
Operational Wind Resistance	80 km/hr (50 mph)
Functional Wind Resistance	81-160 km/hr (51 mph ~ 100 mph)
Survival Wind Resistance	161 km/hr ~ 240 km/hr (101 mph ~ 150 mph)
IP Ingress	IP56
CNX Operation Temperature	0°C ~ +40°C