



**Dual Slant Polarized Single Band (2 Port) Antenna, 584-746MHz, 65 deg, 14.7dBi, 1.8m (6ft), VET, RET, 0-12° Tilt Range**

**FEATURES / BENEFITS**

This antenna provides a two port platform for advanced use in 600MHz and 700MHz deployment scenarios in a high quality package design built to withstand harsh environments.



- ➔ Field Replaceable (Integrated) AISG RET platform for reduced environmental exposure and long lasting quality.
- ➔ Superior elevation performance across the entire electrical down tilt range.
- ➔ High Gain performance for optimum site coverage, reduced power and signal integrity.
- ➔ Excellent Front-to-Back Ratio for less interference from neighboring cells.
- ➔ Manual Override feature for electrical downtilt adjustment.

**Technical Features**

**ANTENNA PERFORMANCE - R1**

Frequency Range	MHz	584-617	617-698	698-746
Gain	dBi	13.6	14.2	14.7
Horizontal Beamwidth	deg	67	64	62
Vertical Beamwidth	deg	16.6	15.0	13.7
Electrical Downtilt Range	deg	0-12	0-12	0-12
Upper Side Lobe Suppression Peak to +20	dB	22	20	19
Upper Side Lobe Suppression 0 to +20	dB	21	18	17
Front to Back Ratio +/-30 Copolar	dB	27	29	30
Cross Polar Isolation Between Ports	dB	30	30	30
3rd Order IMP 2 x 43dBm	dBc			153
Cross Polarization (XPD) @ Boresight	dB	26	27	28
Cross Polarization (XPD) @ +/-60	dB	14	13	10
VSWR		1.5:1	1.5:1	1.5:1
Maximum Power Input	Watts	250	250	250



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**ELECTRICAL SPECIFICATIONS**

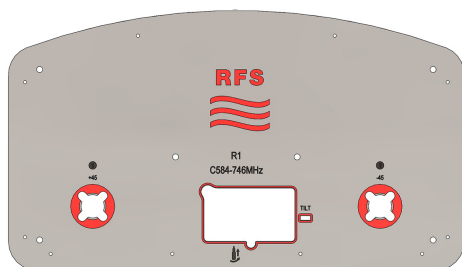
<b>Impedance</b>	Ohm	50.0
<b>Polarization</b>	Deg	±45°

**MECHANICAL SPECIFICATIONS**

<b>Dimensions - H x W x D</b>	mm (in)	1726 x 406 x 228 (68 x 16 x 9)
<b>Weight (Antenna Only)</b>	kg (lb)	20.6 (45.4)
<b>Weight (Mounting Hardware only)</b>	kg (lb)	3.4 (7.5)
<b>Packing size- HxWxD</b>	mm (in)	1850 x 500 x 410 (72.8 x 19.7 x 16.1)
<b>Shipping Weight</b>	kg (lb)	29.2 (64.4)
<b>Connector type</b>		2 x 4.3-10 Long Neck Female/Bottom + 2 AISG connectors (1 male, 1 female)
<b>Adjustment mechanism</b>		Integrated RET solution AISG compliant (Field Replaceable) + Manual Override + External Tilt Indicator
<b>Mounting Hardware Material</b>		Diecast Aluminium and Galvanized steel
<b>Radome Material / Color</b>		ASA / Light Grey RAL7035

**TESTING AND ENVIRONMENTAL**

<b>Temperature Range</b>	°C (°F)	-40 to 60 (-40 to 140)
<b>Lightning protection</b>		Direct Ground
<b>Survival/Rated Wind Velocity</b>	km/h	241 (150)
<b>Wind Load @Rated Wind Front</b>	N	889.0
<b>Wind Load @Rated Wind Side</b>	N	467.0
<b>Wind Load @Rated Wind Rear</b>	N	861.0
<b>Environmental</b>		ETSI 300-019-2-4 Class 4.1E





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**ORDERING INFORMATION**

Model Number	Configuration	Mounting Hardware	Mounting pipe Diameter	Antenna Weight
APXVA18_43-C-A20	Field Replaceable RET Included (1)	APM40-2 Beam tilt kit	60-120mm	20.6kg (45.4lbs)

**External Document Links**

APM40\_Series\_Installation\_Instructions

**Notes**

**External Link Reference**

