

## 31 Cassegrain Antenna

Cassegrain antenna's characteristic is to use back feed form, effectively reduces the wastage of the feeder system. For antenna system with more complex feeder system, adopt cassegrain antenna that can effectively reduce the shade of feeder. Our cassegrain antenna frequency covers until 300 GHz.

Double reflector antenna are widely used in the occasions with high-gain, narrow beam requirements. The frequency range of reflector antenna is very wide. The advantage of double reflector antenna is, big freedom degrees of feed design, low noise temperature, wide feed bandwidth, and convenient for installation and maintenance, can customize various aperture antenna according to customer needs.

### 31.1 Linear Polarization Cassegrain Antenna



#### 【Specification】

Model No*	Freq Range (GHz)	Antenna Caliber (mm)	Working bandwidth	Gain (dB)	Beam width (°)	Sidelobe Level (dB)		VSWR	Connector
						E plane	H plane		
VT100KRA600N	8.20-12.40	600	≤40%	≥31	≤3.8	-13	-15	≤1.50	N Female
VT120KRA600N	9.84-15.0	600	≤40%	≥32.5	≤3.3	-13	-15	≤1.50	N Female
VT140KRA400S	11.9-18.0	400	≤40%	≥30.5	≤4	-13	-15	≤1.50	SMA Female
VT180KRA300S	14.5-22.0	300	≤40%	≥30	≤4	-13	-15	≤1.50	SMA Female
VT220KRA200K	17.6-26.7	200	≤40%	≥28	≤5.3	-13	-15	≤1.50	2.92 Female
VT260KRA200K	21.7-33.0	200	≤40%	≥29.5	≤4.5	-13	-15	≤1.50	2.92 Female
VT320KRA150K	26.5-40.0	150	≤40%	≥29	≤4.8	-13	-15	≤1.50	2.92 Female
VT400KRA150	32.9-50.1	150	≤40%	≥30.5	≤4	-15	-18	≤1.50	WR22
VT500KRA150	39.2-59.6	150	≤40%	≥32	≤3.1	-15	-18	≤1.50	WR19
VT620KRA150	49.8-75.8	150	≤40%	≥34	≤2.5	-15	-18	≤1.50	WR15
VT740KRA150	60.5-91.9	150	≤40%	≥36	≤2	-15	-18	≤1.50	WR15
VT900KRA150	73.8-112	150	≤40%	≥37.5	≤1.6	-15	-18	≤1.50	WR10

\*Indicates Mode Number. See Ordering Information for complete part number.

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Vector Telecom Pty Ltd


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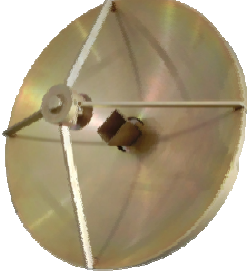


### 【Products Show】

Model No*	VT900KRA135	
Freq Range (GHz)	F0±1GHZ	
Gain (dB)	>37dB	
VSWR	≤1.5	
Polarization mode	Linear polarization	

Model No*	VT320KRA1200	
Freq Range (GHz)	F0±2GHZ	
Gain (dB)	>48dB	
VSWR	≤1.5	
Polarization mode	Linear polarization	

Model No*	VT620KRA250	
Freq Range (GHz)	F0±4GHZ	
Gain (dB)	>38dB	
VSWR	≤1.5	
Polarization mode	Linear polarization	

Model No*	VT740KRA160	
Freq Range (GHz)	F0±2GHZ	
Gain (dB)	>38dB	
VSWR	≤1.5	
Polarization mode	Linear polarization	

### 【Ordering Information】

Example Part No: VT 100 KRA 600 N  
 Vector Telecom | Coax Connector Type: N=Type N, S=SMA, 2.92=K2.92mm  
 Freq Range: 10GHz | Antenna caliber: 600mm  
 Product Type: Linear Polarization Cassegrain Antenna

- Flange type: Multiple types available - see VT Flanges page
- Finish: Corrosion protection plus black top coat