

Electric Parameters of 1800/FA			
频率范围Frequency range (MHz)	1800: 1710-1830	F: 1885-1915	A: 2010-2025
极化方式Polarization(°)	±45		
增益 (dBi)	13.9±0.3	14.3±0.2	14.8±0.4
水平面半功率波束宽度Horizontal half power beam width (°)	35±3	32±1	30±1
垂直面半功率波束宽度Vertical half power beam width (°)	35±3	31±1	30±1
交叉极化比Cross polarization ratio(0°)(dB)	≥15		
上旁瓣抑制1 <sup>st</sup> upper sidelobe suppression (dB)	≥11		
前后比Front-to-back ratio (dB)	≥25		
下倾角电调范围 Electrical down-tilt range (°)	0~6		
下倾角电调精度Electrical down-tilt accuracy (°)	±1		
电压驻波比VSWR	≤1.5		
端口隔离度Port-to-port isolation (dB)	≥25		
端口阻抗Impedance (Ω)	50		
防雷lightning protection	DC接地DC grounding		
平均功率容量Average power capacity (W)	150		

Electric Parameters of D		
通用参数General parameters	频率范围Frequency range (MHz)	D: 2515-2675
	极化方式Polarization(°)	±45
	下倾角电调范围 Electrical down-tilt range (°)	0~6
	下倾角电调精度Electrical down-tilt accuracy (°)	±1
	校准端口-辐射端口耦合度Calibration port-RF port coupling (dB)	-26±2
	校准端口-辐射端口幅度偏差Deviation of amplitude (dB)	≤0.9
	校准端口-辐射端口相位偏差Deviation of phase (°)	≤9
	电压驻波比VSWR	≤1.5
	端口隔离度Port-to-port isolation (dB)	≥25
	端口阻抗Impedance (Ω)	50
	防雷lightning protection	DC接地DC grounding
平均功率容量Average power capacity (W)	150	
单元波束Unit Beam	增益 (dBi)	15.3±0.5
	水平面半功率波束宽度Horizontal half power beam width (°)	25±2
	垂直面半功率波束宽度Vertical half power beam width (°)	22±2
	交叉极化比Cross polarization ratio(0°)(dB)	≥15
	上旁瓣抑制1 <sup>st</sup> upper sidelobe suppression (dB)	≥11
	前后比Front-to-back ratio (dB)	≥25

# SL11018B

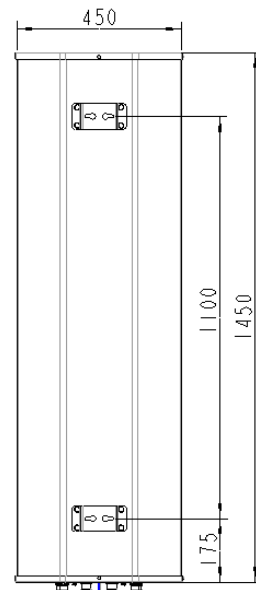
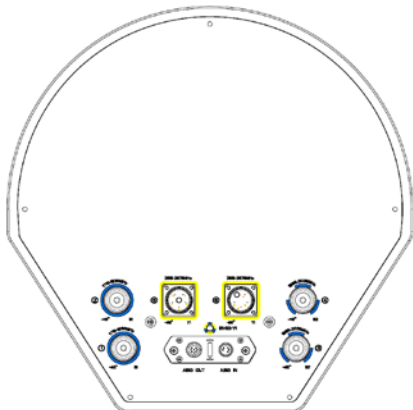
1710-1830 MHz two-port二端口/ 1885-2025 MHz two-port二端口/  
2515-2675 MHz eight-port八端口, 14/15/16 dBi 透镜天线



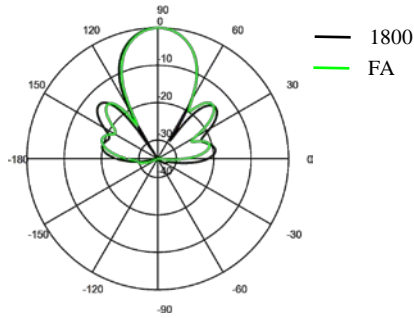
广播波束Broadcast Beam	增益Gain (dBi)	15.2±0.4
	水平面半功率波束宽度Horizontal half power beam width (°)	25±2
	垂直面半功率波束宽度Vertical half power beam width (°)	17±2
	上旁瓣抑制1 <sup>st</sup> upper sidelobe suppression (dB)	≥12
	前后比Front-to-back ratio (dB)	≥25
业务波束Service Beam	0° 波束增益Gain beam 0° (dBi)	20.0±0.4
	±8° 波束增益Gain beam 0° (dBi)	17.5±0.4
	水平面半功率波束宽度Horizontal half power beam width (°)	25±2
	垂直面半功率波束宽度Vertical half power beam width (°)	5.0±0.5
	交叉极化比Cross polarization ratio(0°)(dB)	≥18
	前后比Front-to-back ratio (dB)	≥25

Mechanical Parameters	
接头形式Connector type	4×7/16 DIN型母头+1×5芯集束头+1×4芯集束头
天线尺寸Antenna size (mm)	1450×450×450
天线重量Antenna weight (kg)	24.5
安装架重量Weight of mounting frame (kg)	5.7
机械调整范围Mechanical adjustment range (°)	0 ~ 20
工作温度Working temperature (°)	-55 ~ +75
承载风速Bearing wind speed (km/h)	200
迎风面积Windward area (m <sup>2</sup> )	0.65
风载Wind load (N, @200km/h)	1453/1598/1598
天线罩材料Wind borne radome material	玻璃钢FRP
抱杆直径Diameter of holding pole (mm)	Φ50 ~ Φ115

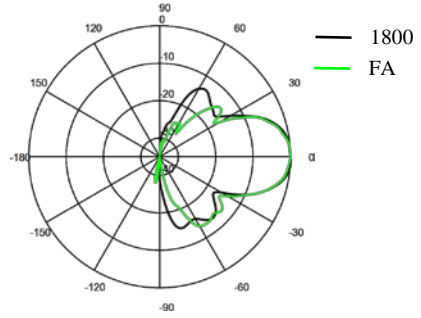
## 接头和阵列布局



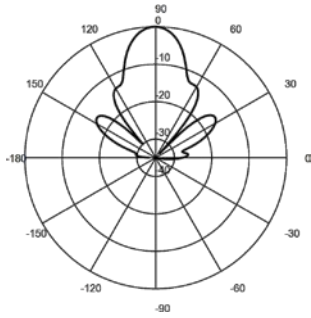
辐射方向图(1800/FA/D)



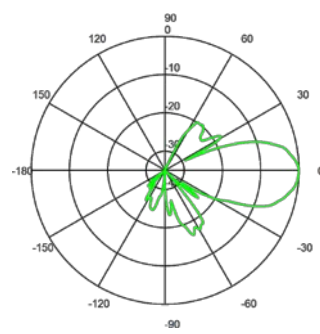
1800/FA水平面方向图  
Horizontal pattern: 1800/FA



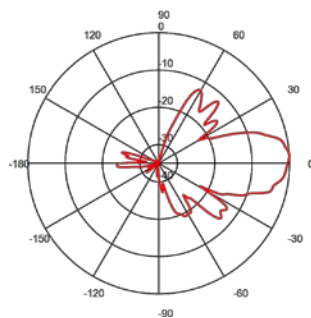
1800/FA垂直面方向图  
Vertical pattern: 1800/FA



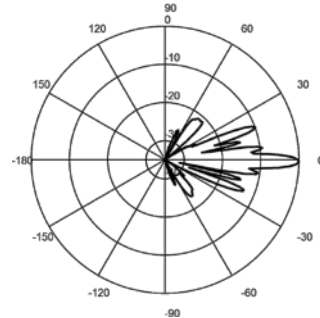
D单元波束水平面方向图  
Horizontal pattern: D, unit beam



D单元波束垂直面方向图  
Vertical pattern: D, unit beam



D广播波束垂直面方向图  
Vertical pattern: D, broadcast beam



D业务0°波束垂直面方向图  
Vertical pattern: D, 0° service beam