

# SUPERIOR SATELLITE

"Satellite Antenna Systems Engineering Excellence"

## SSE SERIES 8345 4.5 METER SATELLITE ANTENNA



- **Two-man installation**
- **Tripod and Pier Mounts**
- **Elevated Mounts**
- **Steerable Options**  
**NAVIGATOR 45-III**
- **Multiple-Satellite Feed Systems (Inset)**

**1743 MIDDLE ROAD • COLUMBIA FALLS, MT 59912**  
**(406) 257-9590 • FAX (406) 257-9599**  
**WWW.SUPERIORSATELLITEUSA.COM**

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*ANTENNA SPECIFICATIONS	C-BAND	KU-BAND
Operating Frequencies .....	3.7 - 4.2 GHz 5.925 - 6.425 GHz	10.95 - 12.75 GHz 14.0 - 14.5 GHz
Gain at Midband (Reference to OMT Port) .....	43.6 dBi minimum @ 4.0 GHz 46.7 dBi minimum @ 6.175 GHz	53.1 dBi minimum @ 12.0 GHz 54.3 dBi minimum @ 14.25 GHz
VSWR .....	1.3:1 maximum	1.3:1 maximum
Polarization .....	Dual Linear	Dual Linear
Polarization Adjustment .....	360° continuous	360° continuous
Cross-Polarized Suppression .....	35 dB minimum on axis	35 dB minimum on axis
Isolation (Port-to-Port) .....	35 dB minimum	35 dB minimum
3 dB Bandwidth (Nominal) .....	1.1° @ 4.0 GHz 0.76° @ 6.175 GHz	0.4° @ 12.0 GHz 0.34° @ 14.25 GHz
First Sidelobe Level .....	-22 dB	-20 dB
Antenna Noise Temperature (Referred to OMT port) .....	@ 4.0 GHz Elevation      Temp 40°              22K	Typical @ 12.0 GHz Elevation      Temp 40°              26K

## MECHANICAL

**Antenna Diameter: 4.5 Meters (14.8 ft)**  
**Reflector Construction: 12 panels, precision stretch stamped steel**  
**Mount Type: Elevation-over-azimuth**  
**Antenna Travel:**  
    **Elevation: 0° to 90° continuous**  
    **Azimuth:**  
        **Manual: 360°**  
        **Motorized 120° continuous**

**Polarization Adjustment;**  
    **Manual: 360° continuous**  
    **Motorized: 300° continuous**

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