



### DESCRIPTION

**S65-8282-423:** VHF/UHF/L/S-band antenna for all fast aircraft, supporting speeds over Mach 2. VHF/UHF bandwidth covers frequencies from 30 to 512 MHz and L/S-band from 800 to 2650 MHz. The L/S-band section supports Quad GSM, 802.11b/g, Link 16, TTNT and IFF TACAN as well as JTRS SRW, AMF-SA. The unit is DC-grounded and hermetically sealed. The baseplate features a six-hole bolt pattern, interchangeable with Collins 37R-2U antennas.

**FEDERAL & MILITARY SPECS:** MIL-A-7772, DO-160A, MIL-HDBK-5400, MIL-E-5272.

*New Product: May not conform to standard lead times.*

SPECIFICATIONS				
<b>MODEL</b>	<b>S65-8282-423</b>			
<b>ELECTRICAL</b>	<b>VHF/FM</b>	<b>VHF/AM</b>	<b>UHF</b>	<b>L/S-BAND</b>
<b>Frequency</b>	30-88 MHz	108-174 MHz	225-512 MHz	800-2650 MHz
<b>VSWR</b>	30-88 MHz: ≤ 2.6:1; 108-174 MHz: ≤ 2.3:1; 225-400 MHz: ≤ 2.3:1; 400-512 MHz: ≤ 2.6:1; 800-2650 MHz: ≤ 2.4:1			
<b>Pattern</b>	Omnidirectional in Azimuth Cosinusoidal in Elevation			
<b>Polarization</b>	Vertical			
<b>Impedance</b>	50 Ohms			
<b>Power</b>	VHF/UHF: 100 Watts / L-Band 4000 Watts Peak			
<b>Lightning Protection</b>	DC Grounded			
<b>MECHANICAL</b>				
<b>Weight</b>	2.2 lbs. (1.1 kg)			
<b>Height</b>	11.85 in. (301 mm)			
<b>Length</b>	10.87 in.			
<b>Width</b>	3.25 in.			
<b>Material</b>	Aluminum Alloy / Fiberglass			
<b>Finish</b>	Skydrol Resistant Polyurethane Enamel			
<b>Connector</b>	TNC Female		N Female	
<b>Drag</b>	1.0 lbs. @ M.85 @ 35,000			
<b>ENVIRONMENTAL</b>				
<b>Temperature</b>	-55°C (-67°F) to +85°C (+185°F)			
<b>Vibration</b>	10 Gs			
<b>Altitude</b>	60,000 ft.			

GAIN			
30 MHz	-22 dBi	174 MHz	+1 dBi
88 MHz	-18 dBi	225 MHz	-3 dBi
108 MHz	-12 dBi	400 MHz	0 dBi
118 MHz	-9 dBi	512 MHz	-3 dBi
136 MHz	-5 dBi	800-2650 MHz	+3 dBi

