

# MLS S65-5366-22M; -32M; -42M



## DESCRIPTION

**S65-5366-22M:** Aluminum, vertically polarized antenna operating in 5.0 to 5.1 GHz. frequency range with maximum VSWR of 2.0:1. The antenna provides an omni-directional gain of +3 dBi and incorporates an internal preamplifier with a gain of  $24.0 \pm 2$  db. DC grounded to provide lightning protection. Hermetically sealed. Compatible with all major MLS systems.

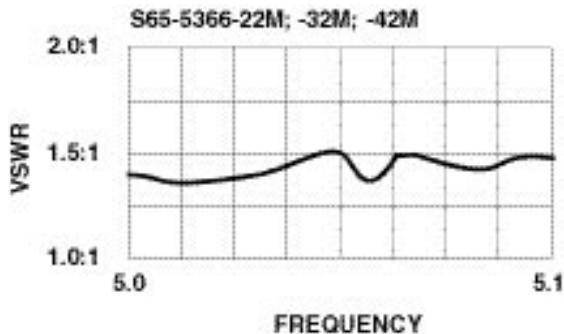
**S65-5366-32M:** Same as (-22) except incorporates an Internal preamplifier gain of  $32.0 \pm 3$  dB.

**S65-5366-42M:** Same as (-32M) except + 6 dBi gain directional antenna element. Compatible with all major MLS systems.

**SSPD-113-130:** Equal-power divider for Microwave Landing System (MLS) applications. This power divider allows MLS users to connect a single MLS antenna to dual MLS receivers for redundancy needs. In case of utilizing an active MLS antenna, this MLS power divider blocks the DC bias coming through RCVR.2 port and passes the DC bias coming through RCVR.1 port.

**FEDERAL & MILITARY SPECS:** ARINC 727, FAA TSO-C104, ARINC 755, MIL-E-5400T, MIL-A-7772B, DO-160B, MIL-STD-810C.

## PERFORMANCE



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## SPECIFICATIONS

	MLS		
	S65-5366-22M	S65-5366-32M	S65-5366-42M
<b>ELECTRICAL</b>			
Frequency	5.0 to 5.1 GHz	5.0 to 5.1 GHz	5.0 to 5.1 GHz
VSWR	2.0:1	2.0:1	2.0:1
Impedance	50 ohms	50 ohms	50 ohms
Polarization	Vertical	Vertical	Vertical
Power	1KW Peak	1 KW Peak	1 KW Peak
Pattern	Omni/AZ Cos/EI	Omni/Az Cos/ EI	Fwd/Dir Cos / EI
Gain (antenna)	3dBi	+ 3 dBi	+6 dBi
Gain (preamp)	$24.0 \pm 2$ dB	$32.0 \pm 3$ dB	$32.0 \pm 3$ dB
Voltage	$12 \pm 2$ VDC	$12 \pm 2$ VDC	$12 \pm 2$ VDC
Current	<25 mA	<25 mA	<25 mA
Lightning Protection		DC Grounded	
<b>MECHANICAL</b>			
Weight	6 oz.	6 oz.	6 oz.
Height	1.15 in.	1.15 in.	1.15 in.
Diameter	3.50 in.	3.50 in.	3.50 in.
Finish		Skydrol resistant enamel	
Material		6061-T6 Alum/Fiberglass	
Connector		TNC	
<b>ENVIRONMENTAL</b>			
Temperature		-67°F to +185°F	
Vibration		10 G's	
Altitude		60,000 ft.	

## OUTLINE DRAWING

