

This modification removes the gain knob and adds a shaft lock. The customer is Ericsson.



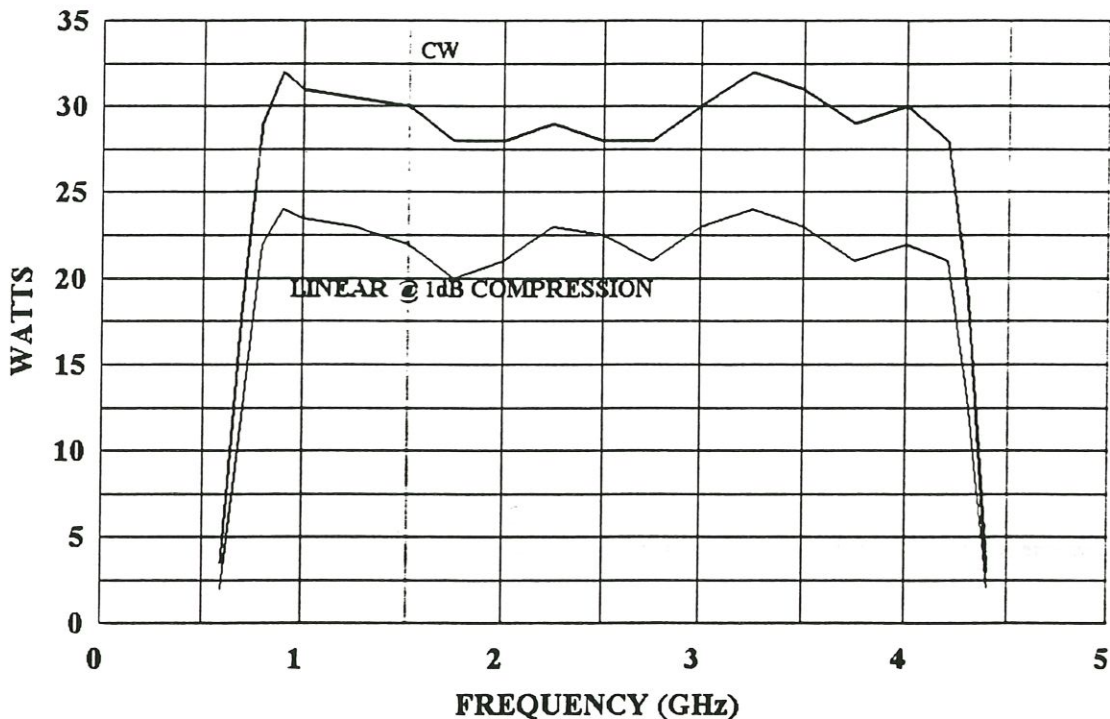
160 School House Road, Souderton, PA 18964-9990 USA
TEL 215-723-8181 • FAX 215-723-5688

MODEL 25S1G4M4
25WATTS CW
0.8 -4.2 GHz

The Model 25S1G4M4 is a solid state, self-contained, air-cooled, broadband amplifier designed for applications where instantaneous bandwidth and high gain are required. Housed in a stylish contemporary cabinet, the unit is designed for benchtop use, but can be removed from the cabinet for immediate equipment rack mounting. The 25S1G4M4, when used with a sweep generator, will provide a minimum of 25 watts of RF power. Included is a front panel gain control which permits the operator to conveniently set the desired output level. The 25S1G4M4 is protected from RF input overdrive by an RF input leveling circuit which controls the RF input level to the RF amplifier first stage when the RF input level is increased above 0 dBm. The RF amplifier stages are protected from over temperature by removing the DC voltage to them if an over temperature condition occurs due to cooling blockage or fan failure. There is a status lamp on the front panel to indicate an over temperature or power supply fault condition. The unit can be returned to operate when the condition has been cleared. Provisions are included for the remote control of the basic operating functions of the amplifier. Computer control can be accomplished using our CP2001 or CP3000 accessories.

This M4 version of the Model 25S1G4 has a shaft lock installed on the gain control.

25S1G4M4 TYPICAL POWER OUTPUT



SPECIFICATIONS Model 25S1G4M4

POWER OUTPUT, CW	
Minimum	25 watts
Linear @ 1dB Compression	18 watts minimum
FLATNESS	±1.5 dB typical ±2.0 dB maximum
FREQUENCY RESPONSE	0.8 -4.2 GHz instantaneously
INPUT FOR RATED OUTPUT	1.0 milliwatt maximum
GAIN (at maximum setting)	44 dB minimum
GAIN ADJUSTMENT (Continuous Range)	10 dB minimum
INPUT IMPEDANCE	50 ohms, VSWR 2.0:1 maximum
OUTPUT IMPEDANCE	50 ohms, nominal
MISMATCH TOLERANCE*	100% of rated power without foldback. Will operate without damage or oscillation with any magnitude and phase of source and load impedance.
MODULATION CAPABILITY	Will faithfully reproduce AM, FM, or pulse modulation appearing on the input signal
HARMONIC DISTORTION	Minus 20 dBc maximum at 20 watts
THIRD ORDER INTERCEPT POINT	53 dBm typical
PRIMARY POWER (Selected Automatically)	90-132, 180-264 VAC 50/60 Hz, single phase 500 watts maximum
CONNECTORS	Type N female
REMOTE CONTROL	25 pin Subminiature D
COOLING	Forced air (self contained fans)
WEIGHT	35 kg (77 lbs)
SIZE (WxHxD)	50.3 x 20.3 x 54.6 cm 19.8 x 8.0 x 21.5 in

* See Application Note #27