Aimed at increasing the range and distance of of both paging and telemetry networks, the 11-54 VHF & 11-99 UHF power amplifiers offer upto 25W output from an input of only 3W. The 11-99 power amplifier has two variants to cover the UHF frequency bands. 11-99-1000 covers 400-440MHz & 11-99-2000 covers 450-500MHz.



11-54 & 11-99 Power Amplifiers

The **11-54** power amplifier operates over the frequency range 138-162MHz and with 4-5 watts input it will deliver 25 Watts. It has a switching bandwidth of ±5MHz with 20 Watts minimum output.

The power sense operates with a minimum of 3 watts input and switches both the power and aerial relays. The 11-54 will operate satisfactorily with down to 400mW drive but the PTT connection must be grounded to operate the receive to transmit changeover.

A 2dB 50S input matching pad allows for connection to a wide range of driving devices and mis-tuning without the risk of instability.

In the receive mode it will pass a receive signal with less than 1dB attenuation. The 3 stage aerial filter attenuates all spurious emissions to less than -30dBm.

The 11-54 is protected against accidental power connection reversal.

The **11-99** power amplifier has two variants to cover the UHF frequency bands. 11-99-1000 covers 400-440MHz & 11-99-2000 covers 450-500MHz and with 4-5 watts input both are designed to deliver 25 Watts output. Both cover the full switching bandwidth without retuning with 20 Watts minimum output.

The power sense operates with a minimum of 1 watt input and switches both the power and aerial relays. The 11-99 will operate satisfactorily with down to 1W input power and will give approximately 10 Watts out.

A 2dB 50S input matching pad allows for connection to a wide range of driving devices without the risk of instability.

In the receive mode it will pass a receive signal with less than 2dB attenuation. The high pass filter is in circuit in the receive mode.

The 3 stage aerial filter attenuates spurious emissions to less than -30dBm.

The 11-54-0000 VHF Power Amplifier



The 11-99-0000 UHF Power Amplifier





Technical Specification



	Technical Specification	Salceill
1	1-54-0000 – 25-Watt VHF Power Amplifier	
Frequency Range	138-162MHz - VHF	
Frequency Selection	Factory preset	
Power Supply	+13.8V typical (11 to 15 VDC range)	
Power Consumption	Standby: 4mA Normal Operation: 4A	
Transmit Power	25W @ 5W input	
Transmit Duty Cycle	50% at 25 Watts	
Power Input	PA Receiver Switching = 3W min PA Only = 0.4W min for 10W output typical	
Switching Bandwidth	PA Receiver Switching = ±5MHz, 20W min with 4W input PA Only = ±5MHz, 20W min with 4W input	
Transmit Enable	PA Receiver Switching = Power sense circuit operates relay	
Connectors	PTT - 2 way plug & socket, screw connections (supplied)	
Power Connector	2-way plug & socket, screw connections (supplied)	
RF Connector	50Ω BNC (both Input and Output)	
Environmental Protection	Not suitable for outdoor use and should be protected from advers conditions	e environmental
Operating Temperature	-10ºC to +60ºC (+14ºF to +140ºF)	
Indicators	Power LED (Green)	
	- Solid On = Normal Operation Status LED (Red)	
	- Solid On = Active Signal Present	
Weight	400g	
Enclosure Dimensions	100mm x 130mm x 30mm (WxDxH)	
Enclosure Material	Extruded aluminium	
Colour	Matt black	
Type Approvals	AS 4295: 1995 (RF)	

 $Programming\ software\ available\ for\ free\ download\ at:\ www.salcom.com/products/11-54-0000/Downloads$

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Email: sales@salcom.com

	Technical Specification	salcam
11-99-0000 – 25-Watt UHF Power Amplifier		
Frequency Range	400-440MHz - UHF (Model No. 11-99-1000)	
Frequency Selection	Factory preset	
Power Supply	+13.8V typical (11 to 15 VDC range)	
Power Consumption	Standby: 4mA Normal Operation: 4.5A Maximum: 6A @ 25W output	
Transmit Power	25W @ 4W input; 18W @ 2W Input; 10W @ 1W Input approx	
Transmit Duty Cycle	50% at 25 Watts; Maximum 1 minutes on time	
Switching Bandwidth	50MHz, 20 Watts minimum with 4 Watts input	
Transmit Enable	Power sense circuit operates relay (1W min)	
Receive Mode	<2dB loss between Input and Output connectors	
Power Connector	2-way plug & socket, screw connections (supplied)	
RF Connector	50Ω BNC (both Input and Output)	
Environmental Protection	Not suitable for outdoor use and should be protected from adverse	environmental
Operating Temperature	-10ºC to +60ºC (+14ºF to +140ºF)	
Indicators	Power LED (Green) - Solid On = Normal Operation Status LED (Red)	
Weight	400g	
Enclosure Dimensions	100mm x 130mm x 30mm (WxDxH)	
Enclosure Material	Extruded aluminium	
Colour	Matt black	
Type Approvals	AS 4295: 1995 (RF)	

 $Programming\ software\ available\ for\ free\ download\ at:\ www.salcom.com/products/11-99-0000/Downloads$

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