

## Safety Information



**READ AND FOLLOW THESE SAFETY INSTRUCTIONS!**

**WARNING**



**HIGH VOLTAGE:** Indicates presence of hazardous voltage. Unsafe practice could result in severe personal injury.



**STATIC SENSITIVE DEVICES:** Handle only at static safe work stations.



**Waste Electrical and Electronic Equipment (WEEE) Directive:** (European Union) At end of useful life, this product should be deposited at an appropriate waste disposal facility for recycling and disposal. Do not dispose of with household waste.



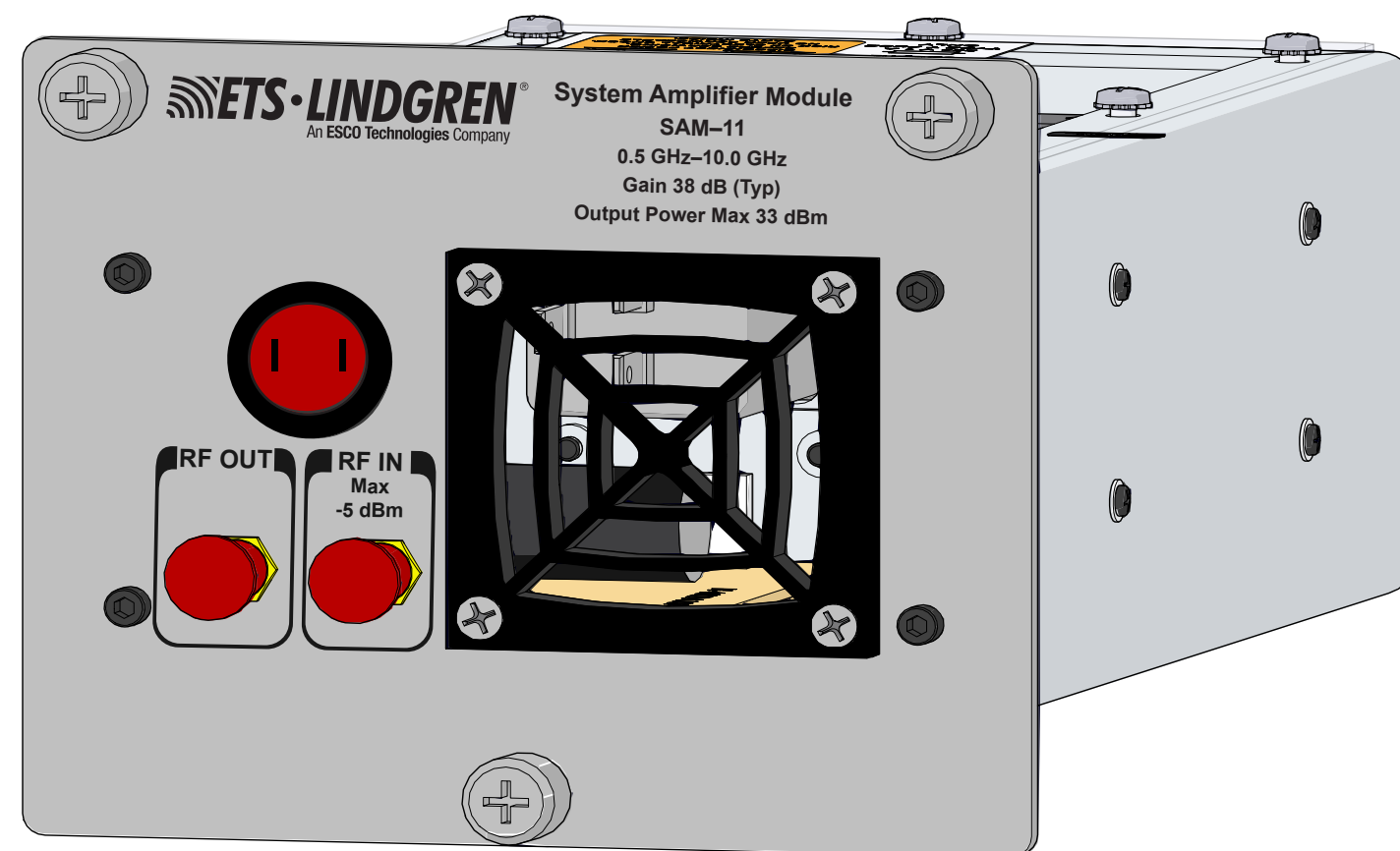
**CONTACT ETS-LINDGREN PRIOR TO SERVICING.** Servicing (or modifying) the unit by yourself may void your warranty. If you attempt to service the unit by yourself, disconnect all electrical power before starting. There are voltages at many points in the instrument that could, if contacted, cause personal injury. Only trained service personnel should perform adjustments and/or service procedures upon this instrument. Capacitors inside this instrument may still be CHARGED even when instrument is disconnected from its power source.

For additional safety information, see the *Product Information Bulletin* included with your shipment.

## Product Information Bulletin

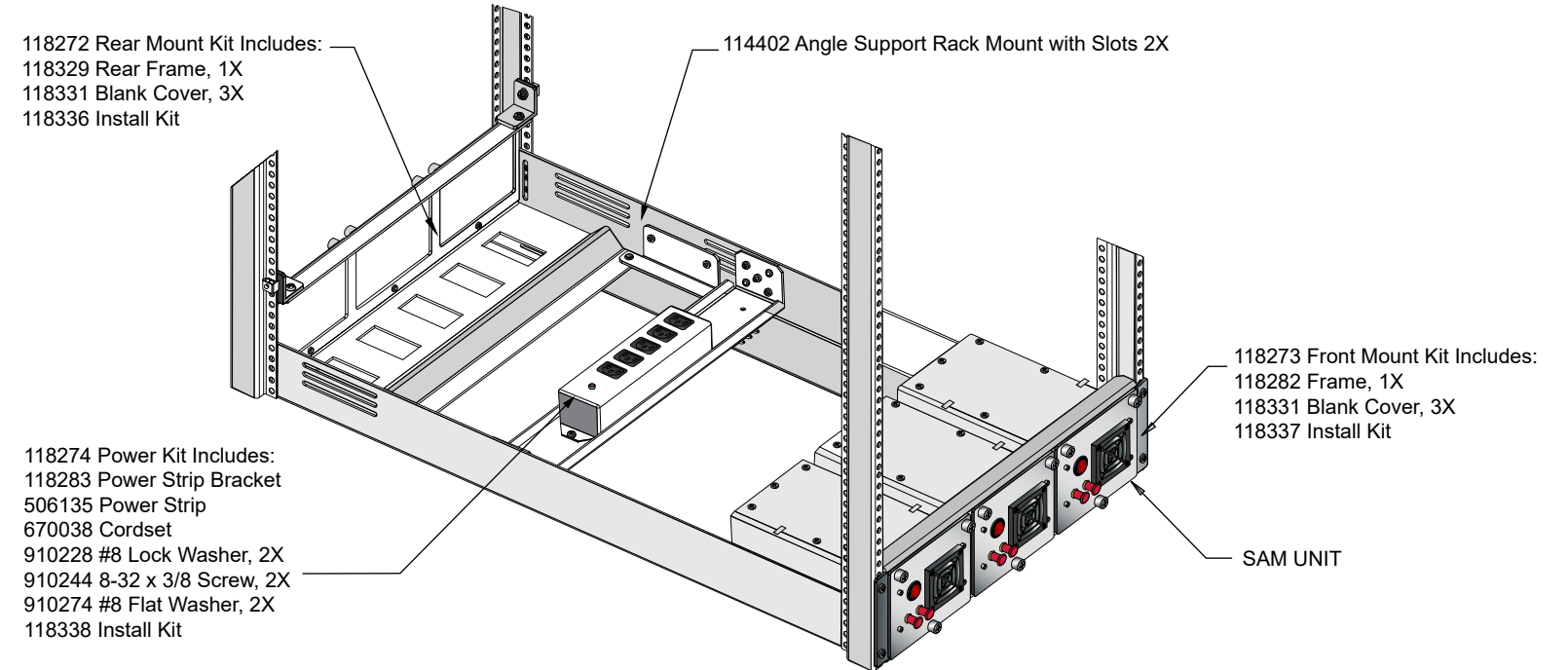
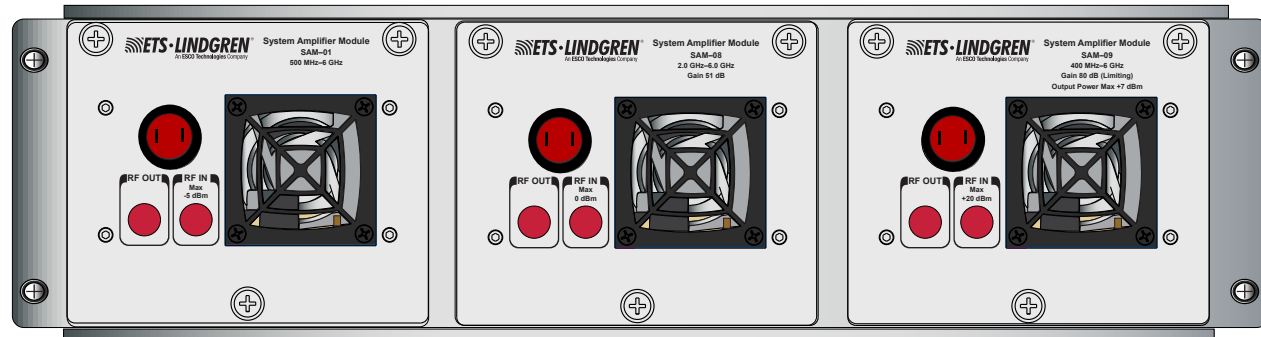
See the ETS-Lindgren *Product Information Bulletin* included with your shipment for the following:

- Safety, regulatory, and other product marking information
- Steps to receive your shipment
- Steps to return a component for service
- ETS-Lindgren calibration service
- ETS-Lindgren contact information



**Note:** ETS-Lindgren may substitute a similar part with the same functionality for another part.

➔ Before connecting any components, see **Safety Information** on the back page of this document.



Model & P/N	Freq Range	Gain	Max Input Power	NF	P1dB	VSWR
SAM-01 / 118281	500 MHz - 3 GHz	Min 27 dB, Typical 30 dB	-5 dbm (Saturated)	4.5 dB Typ	Min +25 dBm, Typ +26 dBm	2.0:1
	3 GHz - 6 GHz	Min 29 dB, Typical 31 dB		2.0 dB Typ, 3.5 dB Max	Min +24 dBm, Typ +25 dBm	
SAM-02 / 118625	30 MHz - 6 GHz	55-58 dB	-10 dbm (Saturated)	3.0 dB Max above 200MHz 5.0 dB Below 200MHz	+20 dBm	2.0:1
SAM-03 / 118626	1 MHz - 1.1 GHz	45-48 dB	-10 dbm (Saturated)	3.5 dB Max above 200MHz 5.0 dB Below 200MHz	+20 dBm	2.0:1
SAM-05 / 118697	30 MHz - 18 GHz	45-48 dB	-10 dbm (Saturated)	5.0 MAX / 4.0 Typ (Above 250 MHz) 7.0 Typ (Below 250 MHz)	+17 dBm	2.2:1
SAM-06 / 1697983	100 MHz - 6 GHz	30 dB	-5 dbm (Saturated)	3.0 dB Typ	Min +24 dBm, Typ +26 dBm	2.0:1
SAM-07 / 119432	2 GHz - 2.7 GHz	45 dB	-38 dbm (Saturated)	1.0 dB Typ, 1.5 dB Max	+7 dBm	1.5:1
SAM-08 / 126522	2 GHz - 6 GHz	51 dB	-40 dbm	1.3 dB Max	+10 dBm	2.5:1
SAM-09 / 1694055	400 MHz - 6 GHz	80 dB (Limiting)	+20 dbm	1.5 Typ, 3.5 Max	N/A	2.0:1
SAM-10 / 1702178	18 GHz - 40 GHz	38 dB	-10 dbm	4 dB	>+16 dBm	2.0:1
SAM-11 / 1746599	0.5 GHz - 10 GHz	38 dB	-5 dbm	4 dB, Typ	31 dBm, Typ	1.4:1, Typ
SAM-12 / 1754477	0.05 - 10 GHz	31 dB	-4 dbm	5 dB, Typ	27 dBm, Typ	1.5:1, Typ

➔ The SAM-09 is a limiting amplifier. Its high gain is a result of the constant output power. Limiting amplifiers help to protect equipment with limited input ranges.