

Amplifier Modules

Our broadband and ultra-broadband amplifier modules cover a very large range of frequencies from LF to microwaves, and are outstanding as drivers in wideband military and commercial communication systems, and scientific, medical and engineering laboratories and amplifier systems. Our Class A amplifiers offer excellent full power and back-off linearity, and all modules perform well in high EMI surroundings due to their enclosed designs, DC feedthru filters, and multi-decade power supply bypassing inside. All amplifier modules are inherently flexible designs, and can be modified or optimized to suit a variety of specific customer needs.

Ultra-Broadband					
Model	Power (W)	Frequency Range (MHz)	Gain (dB)	Class	Voltage (VDC)
RFM0.1-225-20	20	0.1-225	47	A	28
RFM1-525-20	20	1-525	46	A	28
RFM20-512-50	50	20-512	50	A	28
RFM20-512-50-HSD*	50	20-512	50	A	28
RFM20-512-100	100	20-512	53	A/AB	28
RFM20-512-100-HSD*	100	20-512	53	A/AB	28
RFM20-512-350-HSD*	350	20-512	58	A/AB	28 and 50
RFM30-512-20	20	30-512	46	A	28
RFM30-512-20-HSD*	20	30-512	46	A	28
RFM700-2700-50	50	700-2700	50	A/AB	28

* = High speed disable and multifunction interface.

Broadband					
Model	Power (W)	Frequency Range (MHz)	Gain (dB)	Class	Voltage (VDC)
RFM1.5-30-25-HSD*	25	1.5-30	47	A	28
RFM2-30-500XR	500	2-30	27	AB	50
RFM30-88-350-HSD*	350	30-88	58	A/AB	28 and 50
RFM30-108-350-HSD*	350	30-108	58	A/AB	28 and 50
RFM100-500-50	50	100-500	50	A	28
RFM100-500-50-HSD*	50	100-500	50	A	28
RFM100-500-100	100	100-500	53	A/AB	28
RFM100-500-100-HSD*	100	100-500	53	A/AB	28
RFM100-500-350-HSD*	350	100-500	58	A/AB	28 and 50
RFM118-142-50	50	118-142	50	A	28
RFM118-142-50-HSD*	50	118-142	50	A	28
RFM118-142-350-HSD*	350	118-142	58	A/AB	28 and 50
RFM170-230-50A	50	170-230	50	A	28
RFM170-230-350-HSD*	350	170-230	58	A/AB	28 and 50
RFM225-400-50	50	225-400	50	A	28
RFM225-400-50-HSD*	50	225-400	50	A	28
RFM225-400-350-HSD*	350	225-400	58	A/AB	28 and 50
RFM400-1000-75	75	400-1000	51	A/AB	28

* = High speed disable and multifunction interface.

Narrowband					
Model	Power (W)	Frequency Range (MHz)	Gain (dB)	Class	Voltage (VDC)
RFMC704-600	600	699-709	21	AB	36
MWM2400-2500-1.5	1.5	2400-2500	35	A/AB	5 or 8-28
MWM2400-2500-25	25	2400-2500	18	AB	28
MWM2400-2500-25-HG	25	2400-2500	47	A/AB	28
MWM2400-2500-250	250	2400-2500	15	AB	28
MWM2400-2500-250-MG	250	2400-2500	32	AB	28
MWM2400-2500-250-HG	250	2400-2500	57	A/AB	28

SATCOM / LNAs						
Model	Power (dBm)	Frequency Range (MHz)	Gain (dB)	Class	NF (dB)	Voltage
RFM10-1200-0.02	15	10-1200	33	A	2.4	15VDC

Military Amplifiers

All of our amplifiers are rugged and reliable enough for military use. Those below are of special interest, or were specifically designed for military purposes. Contact us for custom configurations or options for your specific applications.

Amplifier Modules					
Model	Power (W)	Frequency Range (MHz)	Gain (dB)	Class	Voltage (VDC)
RFM0.1-225-20	20	0.1-225	47	A	28
RFM1-525-20	20	1-525	46	A	28
RFM1.5-30-25-HSD*	25	1.5-30	47	A	28
RFM2-30-500XR	500	2-30	27	AB	50
RFM20-512-50-HSD*	50	20-512	50	A	28
RFM20-512-100-HSD*	100	20-512	53	A/AB	28
RFM20-512-350-HSD*	350	20-512	58	A/AB	28 and 50
RFM30-88-25-HSD*	25	30-88	46	A	28
RFM30-88-350-HSD*	350	30-88	58	A/AB	28 and 50
RFM30-108-350-HSD*	350	30-108	58	A/AB	28 and 50
RFM30-512-20-HSD*	20	30-512	46	A	28
RFM88-108-25-HSD*	25	88-108	48	A	28
RFM100-500-50	50	100-500	50	A	28
RFM100-500-50-HSD*	50	100-500	50	A	28
RFM100-500-100	100	100-500	53	A/AB	28
RFM100-500-100-HSD*	100	100-500	53	A/AB	28
RFM100-500-350-HSD*	350	100-500	58	A/AB	28 and 50
RFM118-142-50	50	118-142	50	A	28
RFM118-142-50-HSD*	50	118-142	50	A	28
RFM118-142-350-HSD*	350	118-142	58	A/AB	28 and 50
RFM170-230-25-HSD*	25	170-230	47	A	28
RFM170-230-50A	50	170-230	50	A	28
RFM170-230-350-HSD*	350	170-230	58	A/AB	28 and 50
RFM225-400-50	50	225-400	50	A	28
RFM225-400-50-HSD*	50	225-400	50	A	28
RFM225-400-350-HSD*	350	225-400	58	A/AB	28 and 50
RFM400-1000-25-HSD*	25	400-1000	46	A	28
RFM700-2700-50	50	700-2700	50	A/AB	28

* = High speed disable and multifunction interface.

Pallet Amplifiers					
Model	Power (W)	Frequency Range (MHz)	Gain (dB)	Class	Voltage (VDC)
RFP2-30-500XR	500	2-30	27	AB	50
RFP30-88-350XR	350	30-88	58	A/AB	50
RFP30-108-350XR	350	30-108	58	A/AB	50
RFP88-108-350XR	350	88-108	58	A/AB	50
RFP118-142-350XR	350	118-142	58	A/AB	50
RFP225-400-350XR	350	225-400	58	A/AB	50

RF Generators

All of our generators offer variable frequency drive via an internal VCO, and output power control via an internal VVA. All are designed with an XR-rated output transistor for demanding high VSWR applications such as plasma drive. Built-in overdrive protection limits generator output under severe load conditions. All generators are based on our broadband amplifier designs, so if you don't see what you need below, please contact us to discuss your specific application.

Narrowband				
Model	Power (W)	Frequency Range (MHz)	Class	Voltage (VDC)
RFG37-43-100XR-HSD*	100	37-43	A/AB	32 or 46
RFG37-43-200XR-HSD*	200	37-43	A/AB	46
RFG37-43-525XR-HSD*	525	37-43	A/AB	48

* = High speed disable and multifunction interface.

Pallet Amplifiers

Our pallet amplifiers serve a broad range of applications from military (communications, EW and radar) to RF energy, to analog and digital TV and radio broadcast. Medical and scientific applications include MRI and heating systems to linear accelerators. Our designs are inherently flexible, and can be quickly modified to meet specific customer needs.

Military and Broadband					
Model	Power (W)	Frequency Range (MHz)	Gain (dB)	Class	Voltage (VDC)
RFP2-30-25	25	2-30	48	A	28
RFP2-30-50	50	2-30	50	A/AB	28
RFP2-30-500XR	500	2-30	26.5	AB	50
RFP30-88-25	25	30-88	46.5	A	28
RFP30-88-50	50	30-88	50	A/AB	28
RFP30-88-350XR	350	30-88	58	A/AB	50
RFP30-108-350XR	350	30-108	58	A/AB	50
RFP54-88-25	25	54-88	46.5	A	28
RFP88-108-25	25	88-108	48	A	28
RFP88-108-50	50	88-108	51	A/AB	28
RFP88-108-350XR	350	88-108	58	A/AB	50
RFP100-500-50	50	100-500	50	A	28
RFP100-500-100	100	100-500	53	A/AB	28
RFP118-142-350XR	350	118-142	58	A/AB	50
RFP170-230-25	25	170-230	47	A	28
RFP170-230-50	50	170-230	50	A/AB	28
RFP170-230-400XR	400	170-230	57	A/AB	50
RFP225-400-350XR	350	225-400	58	A/AB	50
RFP400-1000-75	75	400-1000	51	A/AB	28

ISM					
Model	Power (W)	Frequency Range (MHz)	Gain (dB)	Class	Voltage (VDC)
RFP13.56-50	50	13.56	50	AB	28
RFP13.56-1000XR	1000	13.56	22	B	50
RFP27.12-50	50	27.12	50	AB	28
RFP27.12-400XR	400	27.12	58.5	A/AB	50
RFP27.12-1000XR	1000	27.12	22	B	50
RFP40.68-50	50	40.68	50	AB	28
RFP40.68-400XR	400	40.68	59	A/AB	50
RFP40.68-1000XR	1000	40.68	21	B	50
RFP81.36-50	50	81.36	50	AB	28
RFP81.36-400XR	400	81.36	59	A/AB	50
RFP81.36-1000XR	1000	81.36	20	B	50

TV and Radio					
Model	Power (W)	Frequency Range (MHz)	Gain (dB)	Class	Voltage (VDC)
RFP54-88-25	25	54-88	46.5	A	28
RFP88-108-25	25	88-108	48	A	28
RFP88-108-50	50	88-108	51	A/AB	28
RFP88-108-350XR	350	88-108	58	A/AB	50
RFP170-230-25	25	170-230	47	A	28
RFP170-230-50A	50	170-230	50	A	28
RFP170-230-400XR	400	170-230	57	A/AB	50
RFP470-860-75	75	470-860	51	A/AB	28

Mini-Systems

Nearly all of our 100W and lower power amplifiers are available in Mini-System format. With a pallet amplifier or amplifier module inside, as well as a heatsink, fan, DC power supply, and thermal protection, it's a simple matter to be up and running with high power RF. Visit our website at www.rfmpt.com for details about the more than 20 Mini-System amplifiers we currently offer.

XR Series Amplifiers

Our XR Series amplifiers employ latest generation extra rugged LDMOS transistors for the most demanding applications. High VSWR loads such as lasers, plasmas, and broadband antennae require reliable RF power sources, and our XR Series amplifiers are designed to withstand the test of time. All single stage amplifiers have matched drivers available. Please refer to our Pallet Amplifiers section.

XR Series Pallet Amplifiers					
Model	Power (W)	Frequency Range (MHz)	Gain (dB)	Class	Voltage (VDC)
RFP2-30-500XR	500	2-30	26.5	AB	50
RFP13.56-1000XR	1000	13.56	22	B	50
RFP27.12-400XR	400	27.12	58.5	A/AB	50
RFP27.12-1000XR	1000	27.12	22	B	50
RFP30-88-350XR	350	30-88	58	A/AB	50
RFP30-108-350XR	350	30-108	58	A/AB	50
RFP40.68-400XR	400	40.68	59	A/AB	50
RFP40.68-1000XR	1000	40.68	21	B	50
RFP81.36-400XR	400	81.36	59	A/AB	50
RFP81.36-1000XR	1000	81.36	20	B	50
RFP88-108-350XR	350	88-108	58	A/AB	50
RFP118-142-350XR	350	118-142	58	A/AB	50
RFP170-230-400XR	400	170-230	57	A/AB	50
RFP225-400-350XR	350	225-400	58	A/AB	50

XR Series Amplifier Modules					
Model	Power (W)	Frequency Range (MHz)	Gain (dB)	Class	Voltage (VDC)
RFM2-30-500XR	500	2-30	27	AB	50

RF Energy Amplifiers

Our RF Energy product offerings cover frequencies from 13.56MHz to 2.5GHz at power levels from 1.5W to 1kW CW. Numerous configurations are available from single-stage to high gain four-stage amplifiers. Microwave amplifiers are available in module format only, but lower frequency amplifiers can be supplied as pallets or modules. Contact us if you don't see exactly what you're looking for below. We can quickly and cost-effectively modify these designs to suit your specific custom requirements.

Low Frequency ISM					
Model	Power (W)	Frequency (MHz)	Gain (dB)	Class	Voltage (VDC)
RFP13.56-50	50	13.56	50	AB	28
RFP13.56-1000XR	1000	13.56	22	B	50
RFP27.12-50	50	27.12	50	AB	28
RFP27.12-400XR	400	27.12	58.5	A/AB	50
RFP27.12-1000XR	1000	27.12	22	B	50
RFP40.68-50	50	40.68	50	AB	28
RFP40.68-400XR	400	40.68	59	A/AB	50
RFP40.68-1000XR	1000	40.68	21	B	50
RFP81.36-50	50	81.36	-50	AB	28
RFP81.36-400XR	400	81.36	59	A/AB	50
RFP81.36-1000XR	1000	81.36	20	B	50

Microwave					
Model	Power (W)	Frequency Range (MHz)	Gain (dB)	Class	Voltage (VDC)
MWM2400-2500-1.5	1.5	2400-2500	35	A/AB	5 or 8-28
MWM2400-2500-25	25	2400-2500	18	AB	28
MWM2400-2500-25-HG	25	2400-2500	47	A/AB	28
MWM2400-2500-250	250	2400-2500	15	AB	28
MWM2400-2500-250-MG	250	2400-2500	32	AB	28
MWM2400-2500-250-HG	250	2400-2500	57	A/AB	28