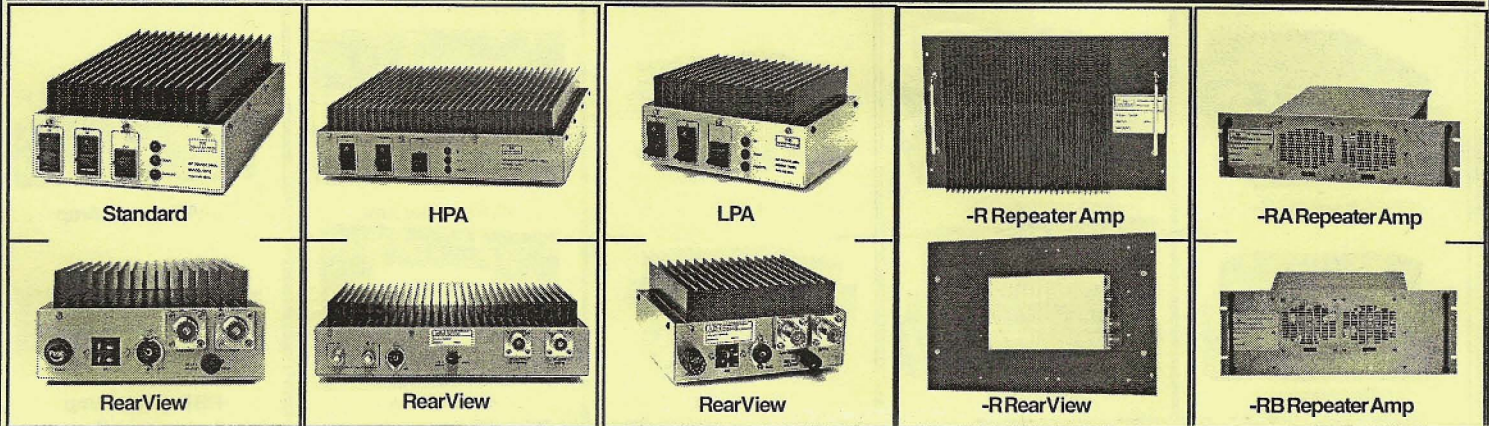


144-148 MHz RF AMPLIFIERS - VHF/UHF AMATEUR SERIES



- FEATURES** (Standard, HPA and LPA)
- Linear all-mode operation with automatic T/R or P.T.T. switching and adjustable relay delay control. Linear operation allows SSB, FM, or CW operation with drive power levels usable down to 1/2 watt.
 - Receive GaAs FET pre-amplifier option available - factory installed or addable by us at a later date. Preamps use GaAs FET devices rated at .5db with + 18 dbm 3rd-order intercept point. The result is superior weak signal reception with improved strong signal intermod rejection.
 - Thermal shutdown protection built-in. Since extended transmission at full power produces temperature build-up in all amplifiers, a thermostatic switch is incorporated to protect the amplifier at temperatures exceeding +65°C.
 - Remote control feature available to switch in/out the amplifier and to defeat LED illumination (to drop current drain for rear trunk-mounted amps).
 - Excellent electrical and mechanical construction integrity using the best quality components and workmanship. User friendly controls are mounted on front panel with all RF and DC cables attached out of sight on rear panel. LED status lights on front continuously monitor the operating state of the unit. All models are manufactured in U.S.A. and carry a factory warranty.
 - Designed to ICAS ratings and meets FCC part 97 regulations.

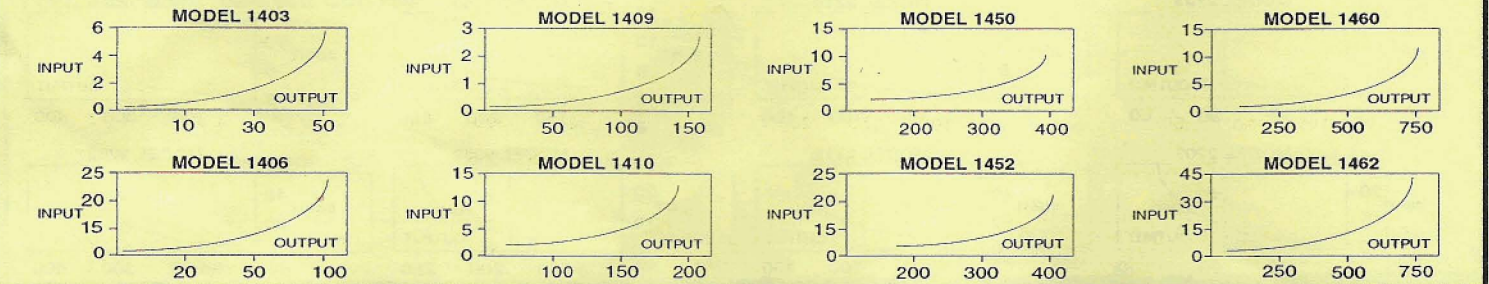
SPECIFICATIONS (bold listings are factory stocked)

Model ¹	Type	Freq ² (MHz)	P(in) (W)	P(out) (W)	DC Power (Vdc)	Preamp (A)	Preamp NF/Gain	Conn. (RF)	Size (h,w,d")	Model ¹	Type	Freq ² (MHz)	P(in) (W)	P(out) (W)	DC Power (Vdc)	Preamp (A)	Preamp NF/Gain	Conn. (RF)	Size (h,w,d")
1403	LPA	144-148	1-5	10-50	13.8	6	-/-	UHF	3x6x5	1412R	CnDuty/cc	144-148	25-50	160-200	13.8	22	-/-	UHF	12x19x4
1403G	LPA	144-148	1-5	10-50	13.8	6	.7/15	UHF	3x6x5	1412RA	CnDuty/fn	144-148	25-50	160-200	13.8	22	-/-	UHF	5x19x15
1405	Standard	144-148	1-2	100	13.8	14	-/-	UHF	3x6x11	1448	HPA	144-148	25-5	160	13.8	29	-/-	UHF	3x10x11
1405G	Standard	144-148	1-2	100	13.8	14	.7/15	UHF	3x6x11	1448G	HPA	144-148	25-5	160	13.8	29	.7/15	UHF	3x10x11
1406	Standard	144-148	15-25	100	13.8	12	-/-	UHF	3x6x11	1448RA	CnDuty/fn	144-148	25-5	160	13.8	29	-/-	UHF	5x19x15
1406G	Standard	144-148	15-25	100	13.8	12	.7/15	UHF	3x6x11	1450	HPA	144-148	5-10	350	13.8	56	-/-	UHF	3x10x11
1406RN	CnDuty/cc	144-148	15-25	100	13.8	12	-/-	UHF	9x19x4	1450G	HPA	144-148	5-10	350	13.8	56	.7/15	UHF	3x10x11
1409	Standard	144-148	2	150	13.8	25	-/-	UHF	3x6x11	1450RA	CnDuty/fn	144-148	2-6	350	13.8	56	-/-	UHF	5x19x15
1409G	Standard	144-148	2	150	13.8	25	.7/15	UHF	3x6x11	1452	HPA	144-148	10-25	350	13.8	52	-/-	UHF	3x10x11
1409R	CnDuty/cc	144-148	2	150	13.8	25	-/-	UHF	12x19x4	1452G	HPA	144-148	10-25	350	13.8	52	.7/15	UHF	3x10x11
1410	Standard	144-148	5-10	160-200	13.8	27	-/-	UHF	3x6x11	1452RA	CnDuty/fn	144-148	10-25	350	13.8	50	-/-	UHF	5x19x15
1410G	Standard	144-148	5-10	160-200	13.8	27	.7/15	UHF	3x6x11	1454	HPA	144-148	50-80	350	13.8	40	-/-	UHF	3x10x11
1410RA	CnDuty/fn	144-148	5-10	160-200	13.8	27	-/-	UHF	5x19x15	1454RA	CnDuty/fn	144-148	50-80	350	13.8	40	-/-	UHF	5x19x15
1412	Standard	144-148	25-50	160-200	13.8	22	-/-	UHF	3x6x11	1460RB	CnDuty/fn	144-148	10	650	13.8	112	-/-	UHF	7x19x18
1412G	Standard	144-148	25-50	160-200	13.8	22	.7/15	UHF	3x6x11	1462RB	CnDuty/fn	144-148	25-50	650	13.8	100	-/-	UHF	7x19x18

1. Many model variations offered - consult factory
 2. Amps tuned for full 144-148 MHz bandwidth
 Note: Cont-Duty Amps are transmit only, no T/R switching
- ACCESSORIES:** MMB-1 Mobile-Mount Bracket for Mobile/Base amplifier
 MMB-2 Mobile-Mount Bracket for HPA amplifier
 MMB-3 Mobile-Mount Bracket for LPA amplifier
 CML-CVR Commercial Cover with Mounting Lip for surface attachment
- FAN-LPA Cooling Fan+Bracket for LPA amplifier
 FAN-STD Cooling Fan+Bracket for Mobile/Base amplifier
 FAN-HPA Cooling Fan+Bracket for HPA amplifier

- Type /Description**
- LPA Series** - Designed for low-power applications such as a power amp for hand-helds or driver amp for higher-power amp systems. They are recommended for output powers up to 60 Watts. Size/Wt is 3x6x5"(h,w,d), 5 Lbs.
- Standard** - The most popular configuration suitable for base or mobile operation. Duty is intermittent and has thermal switch protection. Recommended for output powers up to 200 Watts. Size/Wt is 3x6x11"(h,w,d), 6 Lbs.
- HPA Series** - High-output power amplifiers and larger size. Recommended for output powers up to 400 Watts. Duty is intermittent and has thermal switch protection. Size/Wt is 3x10x11"(h,w,d), 9 Lbs.
- CnDuty/cc (-RN,-R)** - Continuous-duty, rack-mount, medium-power amplifiers. Cooling is by convection from large vertically oriented heatsinks mounted frontside on the rack panel. Size/Wt is 9x19x4"(h,w,d)/ 14 Lbs for -RN or 12x19x4"(h,w,d)/ 17 Lbs for -R.
- CnDuty/fn (-RA)** - Continuous-duty, rack-mount, high-power amplifiers. Cooling is from forced-air (dual-redundant fans) with airflow from front-to-back. Size/Wt is 5x19x15"(h,w,d), 18 Lbs.
- CnDuty/fn (-RB)** - Continuous-duty, rack-mount, very high-power amplifiers. Cooling is from forced-air (dual-redundant fans) with airflow from front-to-back. Size/Wt is 7x19x18"(h,w,d), 25 Lbs.

TYPICAL PERFORMANCE CURVES



ORDERING INFORMATION

- Dealer orders are recommended in order to provide best service and support to our costumers. Standard models are tuned at midband for the power amplifier and preamp (-G models only). All models include operating/service manual or complete test data.
- Factory orders are available for standard models as well as specials. Pricing for standard models is suggested list. Special designs/options pricing and terms are as quoted from the factory. All shipments are UPS (insured), FOB Los Angeles.
- Although product information and descriptions are current, TE Systems reserves the right to improve or change its products, specifications, designs, and pricing without notice.