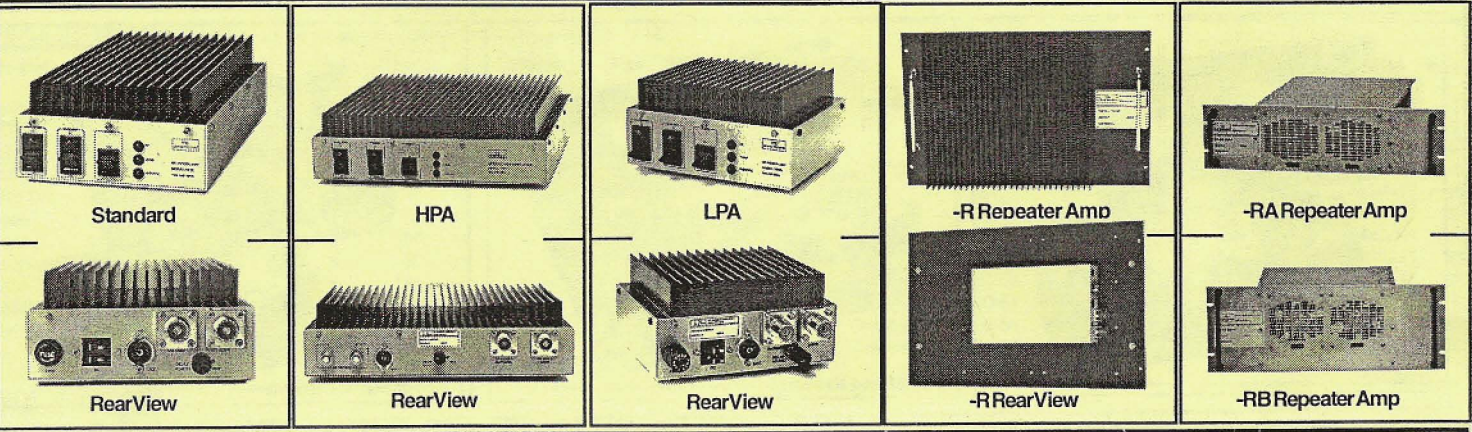


420-450 MHz RF AMPLIFIERS - VHF/UHF AMATEUR SERIES



- 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.

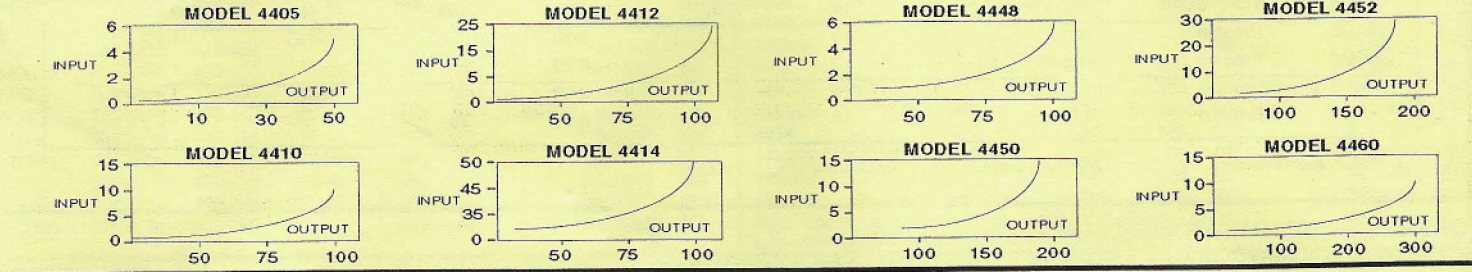
SPECIFICATIONS (bold listings are factory stocked)

Model ¹	Type	Freq ² (MHz)	P(in) (W)	P(out) (W)	DCPower (Vdc)	Preamp (A)	Conn. (NF/Gain)	Size (h,w,d")	Model ¹	Type	Freq ² (MHz)	P(in) (W)	P(out) (W)	DCPower (Vdc)	Preamp (A)	Conn. (NF/Gain)	Size (h,w,d")
4405	Standard	420-450	1-5	15-50	13.8	9	-/-	N 3x6x11	4446RA	CnDty/fn	420-450	.1	100	13.8	26	-/-	N 5x19x15
4405G	Standard	420-450	1-5	15-50	13.8	9	1.2/12	N 3x6x11	4448	HPA	420-450	1-5	75-100	13.8	25	-/-	N 3x10x11
4406	Standard	420-450	25	50	13.8	7	-/-	N 3x6x11	4448G	HPA	420-450	1-5	75-100	13.8	25	1.2/12	N 3x10x11
4406G	Standard	420-450	25	50	13.8	7	1.2/12	N 3x6x11	4448RA	CnDty/fn	420-450	1-5	75-100	13.8	25	-/-	N 5x19x15
4410	Standard	420-450	10	100	13.8	19	-/-	N 3x6x11	4450	HPA	420-450	5-10	180	13.8	35	-/-	N 3x10x11
4410G	Standard	420-450	10	100	13.8	19	1.2/12	N 3x6x11	4450G	HPA	420-450	5-10	180	13.8	35	1.2/12	N 3x10x11
4410R	CnDty/cc	420-450	10	100	13.8	19	-/-	N 12x19x4	4450RA	CnDty/fn	420-450	2-6	180	13.8	35	-/-	N 5x19x15
4410RA	CnDty/fn	420-450	10	100	13.8	19	-/-	N 5x19x15	4452	HPA	420-450	25	180	13.8	30	-/-	N 3x10x11
4412	Standard	420-450	15-30	100	13.8	19	-/-	N 3x6x11	4452G	HPA	420-450	25	180	13.8	30	1.2/12	N 3x10x11
4412G	Standard	420-450	15-30	100	13.8	19	1.2/12	N 3x6x11	4452RA	CnDty/fn	420-450	25	180	13.8	30	-/-	N 5x19x15
4412R	CnDty/cc	420-450	15-30	100	13.8	19	-/-	N 12x19x4	4454	HPA	420-450	60-80	180	13.8	26	-/-	N 3x10x11
4412RA	CnDty/fn	420-450	15-30	100	13.8	19	-/-	N 5x19x15	4454RA	CnDty/fn	420-450	60-80	180	13.8	26	-/-	N 5x19x15
4414	Standard	420-450	35-45	100	13.8	14	-/-	N 3x6x11	4460RB	CnDty/fn	420-450	10	280	13.8	68	-/-	N 7x19x18
4414R	CnDty/cc	420-450	35-45	100	13.8	14	-/-	N 12x19x4	4462RB	CnDty/fn	420-450	40-50	280	13.8	58	-/-	N 7x19x18

1. Many model variations offered - consult factory
 2. Specify 10 MHz bandwidth within band; non-specified BW are tuned 430-450 broadband
 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.
CnDty/cc (-R) - Continuous-duty, rack-mount, medium-power amplifiers. Cooling is by convection from large vertically oriented heatsinks mounted on the rack panel. Size/Wt is 12x19x4"(h,w,d), 17 Lbs.
CnDty/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.
CnDty/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 customers. 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.