KLM ELECTRONICS CATALOG Fall-1974

VHF & UHF ANTENNAS

SOLID STATE AMPLIFIERS

HF ANTENNAS

KLM 20 METER "BIG STICK" MONOBANDER

EXCLUSIVE FEATURES

Constant gain and low SWR across the phone and CW portion without retuning. DUAL DRIVEN elements for high efficiency and superb front to back and front to side ratio . . . that will put YOU on top of the pileups . . . All elements insulated from the boom with KLM's exclusive epoxy insulators.

NEW

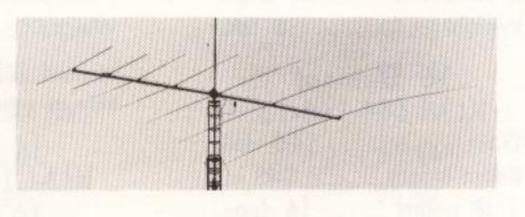
Construction
Technique
Permits
Even Faster
Assembly

Elements	5 full size
Frequency of Operation	13.9 to 14.4 mHz
Gain Over a Dipole	9.7 + 0.2db
Front to Back Ratio	30 db
Impedance	200 ohm balanced
(50 ohms with KLM's optional 4:	I, 4KW pep balun)

	- DE 11 MA	

Boom Size	42' x 3" dia.
Weight	65 lbs.
Turn Radius	28 feet
Wind Area	9.25 sq. ft.
Order Part Number KLM	13.9 - 14.4 - 5

NEW Construction Technique Permits Even Faster Assembly



A log periodic antenna with useful frequency operation from 10 to 31 mHz. This fully insulated boom antenna is the answer to the most demanding operator allowing full coverage of 10 and 15 mHz WWV, 13-14-15-17 and 19 mHz Mars. 20-15 and 10 meter amateur bands, all shortwave bands from 10 to 30 mHz and of course 27 mHz CB. In short, this array gives the user the equivalent of an optimum spaced long boom, 3 element Yagi ANYWHERE from 13 to 30 mHz!!

•	Elements				/
•	Frequency of Operation	3	to	30	mHz
	Gain (typ.)	. (9.2	db	iso.

KLM Tri-Bander with NO Traps!

20 METERS 15 METERS 10 METERS

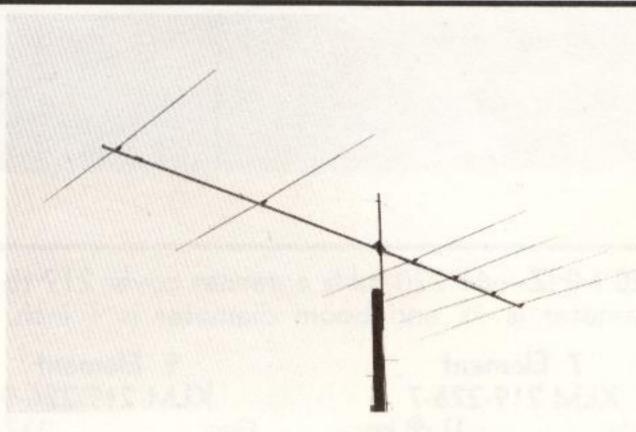
• Front to back ratio (typ.)	
Feed impedance	50 ohm unbalanced
(4:1 4kw balun supplied)	
• Max. SWR	2.0:1
Boom size	30.0 ft. x 3 in. dia.
Weight	70 lbs.
Wind load area	8.25 sq. ft.
Turning radius	26 ft.
Order Part Number	KLM 13 - 30 - 7

KLM 15 METER "BIG STICK" MONOBANDER

Features constant gain and low VSWR across the phone and CW band without retuning. Front to back is 30 db or better from 21.0 to 21.450 mHz.

Elements 6, full size
Frequency 21.0 to 21.5 mHz
Gain Over a Dipole 10.5 db
Front to Back Ratio
Impedance 200 ohm balanced
(50 ohms with KLM's optional 4:1 4 KW PEP Balun)

Boom Size	36' x 3''
Weight	85 lbs.
Turn Radius	20 ft.
Wind Area	9.5 sq. ft.
Order Part N	No. KLM 21.0-21.5-6



All KLM HF ANTENNAS use 6063 - T832 aluminum elements, top quality stainless steel hardware and high grade epoxy insulation material. SPECIFY YOUR MAST SIZE WHEN ORDERING. KLM also has the facility to build to your specific HF Band requirements.

VHF & UHF Antennas

These multidriven antennas for the 50 mHz, 144 mHz, 220 mHz and 432 mHz band are designed to give maximum gain and clean patterns as well as a good SWR over the frequency range specified with no retuning. All antennas use high grade insulating materials, all stainless steel hardware and 6063-T832 aluminum for low electrical loss consistent with durability and strength.

6 METERS—All 6 meter antennas cover 49.9 to 52.5 mHz with a 50 ohm balanced feed impedance. Element dia. 1/2 inches and boom dia. is 2 inches.

8	El	em	ent
KLN	N	50-	52-8

II Element KLM 50-52-11

INTERNITOR OF THE	
Gain	14.0 dbd
Length (Boom)	360 in.
3 db Points	21 degs.
Weight	27 lbs.

2 METERS—All 2 meter entennas cover 143.5 to 148.5 mHz with 50 ohm bal. feed impedance. Element dia. 3% inch, boom dia. I in. up to 11 El. 11/2 inch to 12 to 16 El. No boom support necessary. 7 El. is also rear mountable if desired.

7 Element KLM 144-148-7

Gain	. 11	dB	iso.
Boom length		64	in.
3 db points	2	? 7d	egs.
Weight		3.5	lbs.

12 Element KLM 144-148-12

Gain	13.5 dpl.
Boom length	169 in.
3 dB points	. 20 degs.
Weight	. 7.5 lbs.

8 Element KLM 144-148-8

Gain	12.5 iso.
Boom length	87 in.
3 dB points	25 degs.
Weight	4 lbs.

14 Element KLM 144-148-14

Gain	14.2 dpl.
Boom length	208 in.
3 dB points	18 degs.
Weight	8 lbs.

9 Element KLM 144-148-9

Gain	13.7 iso.
Boom length	120 in.
3 dB points	24 degs.
Weight	5 lbs.

16 Element KLM 144-148-16

Gain	14.8 dpl
Boom length	248 in
3 dB points	16 degs
Weight	. 10 lbs

II Element KLM 144-148-11

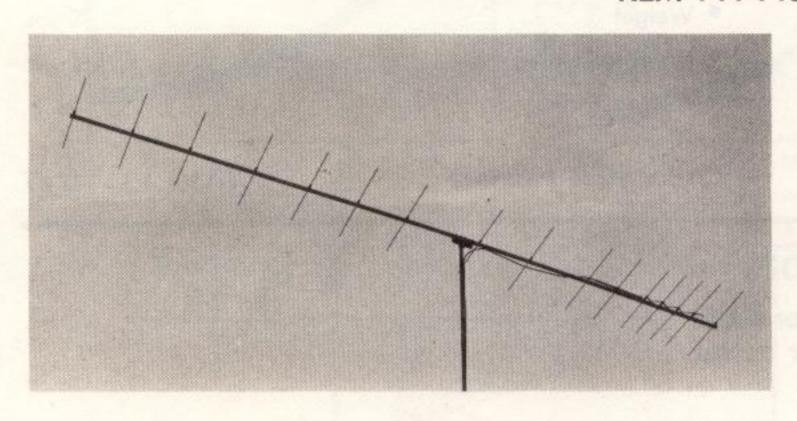
Gain	14	1.5	iso.
Boom length		150) in.
3 dB points	21	d	egs.
Weight		6	lbs.

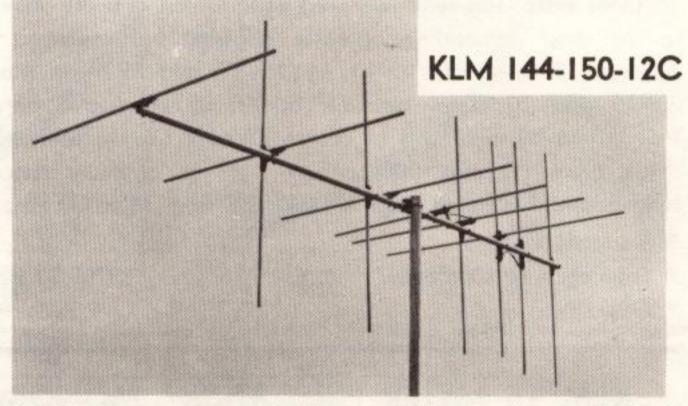
Kits less booms are also available at substantial savings —

14 Element KLM 144-148-14K 16 Element KLM 144-148-16K

2 Meter Moonbounce Building Blocks! 12, 14, and 16 Element

KLM 144-148-16





NEW! For the oscar satellite bugs and hams who require both horizontal and vertical polarizations at times, we now have a 12 element, circularly polarized antenna for 144-150 mHz with 9.5 db gain over a dipole. Antenna comes complete with harness.

220 MHZ—All 220 mHz antennas cover 219 to 226 mHz with a 50 ohm balanced feed impedance. Element diameter is 3/8 and boom diameter is 1 inch.

7 Element KLM 219-226-7

KLIVI Z 17-	ZZO-/
Gain	. 11 dB iso.
Boom	57 in.
3 dB points	27 degs.
Weight	3 lbs.

9 Element KLM 219-226-9

Gain	13.7 iso.
Boom length	74 in.
3 dB points	24 degs.
Weight	3 lbs.

II Element KLM 219-226-11

Gain		14.5 iso.
Boom ler	ngth	100 in.
3 dB po	ints	22 degs.
Weight		. 4.5 lbs.

14 Element KLM 219-226-14

Gain	16.4 iso.
Boom length	183 in.
3 dB points	18 degs.
Weight	7.5 lbs.

432 MHZ—All 432 mHz antennas are designed with a 50 ohm balanced feed impedance. Element diameter is 3/8 and boom diameter is 1 inch. The 6 and 14 element antennas are rear mountable.

Continuous Coverage 440 to 520 mHz Ideal for Point to Point or Repeater Control

REAR MOUNTABLE

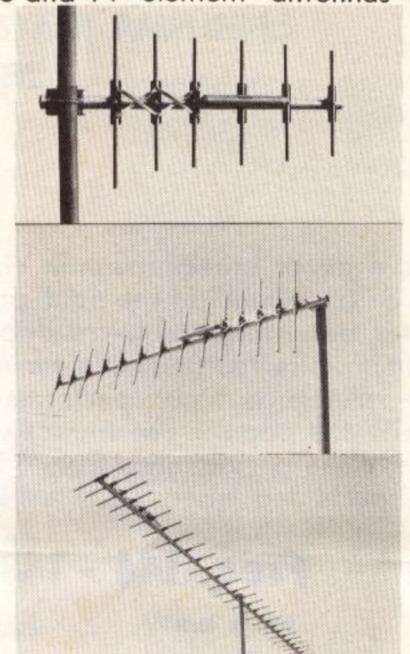
420 - 470 mHz - No Tuning Excellent Repeater Control Antenna or System Building Block

14 ELEMENTS

Mountable for Vertical or Horizontal Polarization

420 - 450 mHz - No Tuning Maximum Gain for Tropo, Contest, DX, Repeater Control, etc.

27 ELEMENTS



6 Element KLM 440-520-6

Gain	7 dbd min.
Boom	24 in.
3 dB points	26 degs.
F/B Ratio	20 db min.
Weight	1.2 lbs.

14 Element KLM 420-470-14

Gain	13	.7 iso.
Boom length		57 in.
3 dB points	18	degs.
Weight		4 lbs.

27 Element KLM 420-450-27

Gain	16.7 iso.
Boom length	120 in.
3 dB points	15 degs.
Weight	7.5 lbs.

KLM "Hi Performance" Baluns And Couplers

When optimum performance and clean patterns are a must . . . HIGH FREQUENCY FERRITE BALUNS

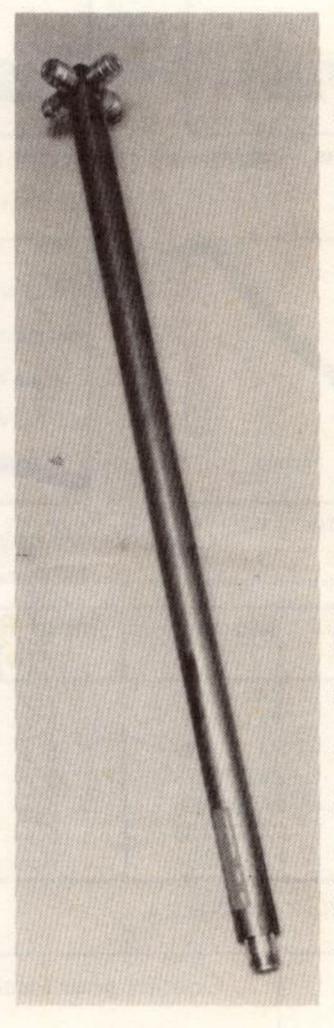
Frequency Range	Impedance	Power Capability
5 - 31 mHz	50 ohms unbal to 200 bal.	4 KW PÉP
3 - 60 mHz	50 ohms unbal to 50 ohms bal.	4 KW PEP
10 - 110 mHz	75 ohms unbal to 75 ohm bal.	2 KW PEP
20 - 130 mHz	50 ohm unbal to 200 ohm bal.	2 KW PEP

VHF - UHF "Sleeve" Baluns

Featuring Teflon and low loss air line construction. The 144 and 220 mHz baluns are standard with SO-239 connectors but are available on special order with a type N fitting for \$1.0 extra. The 432 MHz balun is standard with the type N fitting.



Frequency	Impedance	Nominal Power Capability	
144 MHz 50 o	hm unbal to 50 ohms bal.		
144 MHz 50 of	m unbal to 100 ohms bal.	2 KW PEP	
144 MHz 50 oh	m unbal to 200 ohms bal.	2 KW PEP	
144 MHz 75 ol	nm unbal to 50 ohms bal.	2 KW PEP	
220 MHz 50 o	hm unbal to 50 ohms bal.	2 KW PEP	
220 MHz 50 of	m unbal to 100 ohms bal.	2 KW PEP	
220 MHz 75 o	hm unbal to 50 ohms bal.	2 KW PEP	
432 MHz 50 ol	nm unbal to 50 ohms bal.	2 KW PEP	
432 MHz 50 of	m unbal to 200 ohms bal.	2 KW PEP	
432 MHz 75 o	hm unbal to 50 ohms bal.	2 KW PEP	
432 MHz 50 of	m unbal to 200 ohms bal.	2 KW PEP	
	rness quarterwave matchi and eight bay stacking co onnectors.	The state of the s	

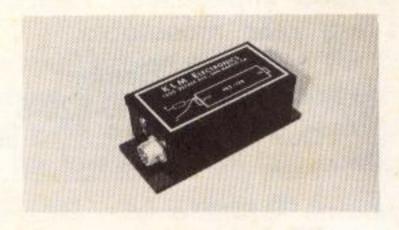


ANTENNA COUPLERS

For the ham who wants to stack VHF-UHF antennas for EME, tropo, or antenna couplers-complimenting our already popular high efficiency balun line. These couplers or power dividers are made with 'N' connectors only and replace the 2 quarter wave matching cables, barrels and 'Ts' needed to tie 2 or 4 antennas together allowing a significant cost savings not to mention reduction in cable and connector loss. Its a natural for your next array be it for 2 or 32 antennas. 2 antenna coupler 140-150 Mhz 4 antenna coupler 140-150 Mhz 2 antenna coupler 219-226 Mhz 4 antenna coupler 219-226 Mhz 2 antenna coupler 400-470 Mhz 4 antenna coupler 400-470 Mhz

Inquiries accepted on other frequencies, impedances and antenna sizes. All prices are subject to change without notice. Units are shipped F.O.B. San Martin, CA. For antennas with booms in excess of 165 inches in length, specify mast size if over 11/2 inch diameter.

VHF Solid State Power Amplifiers

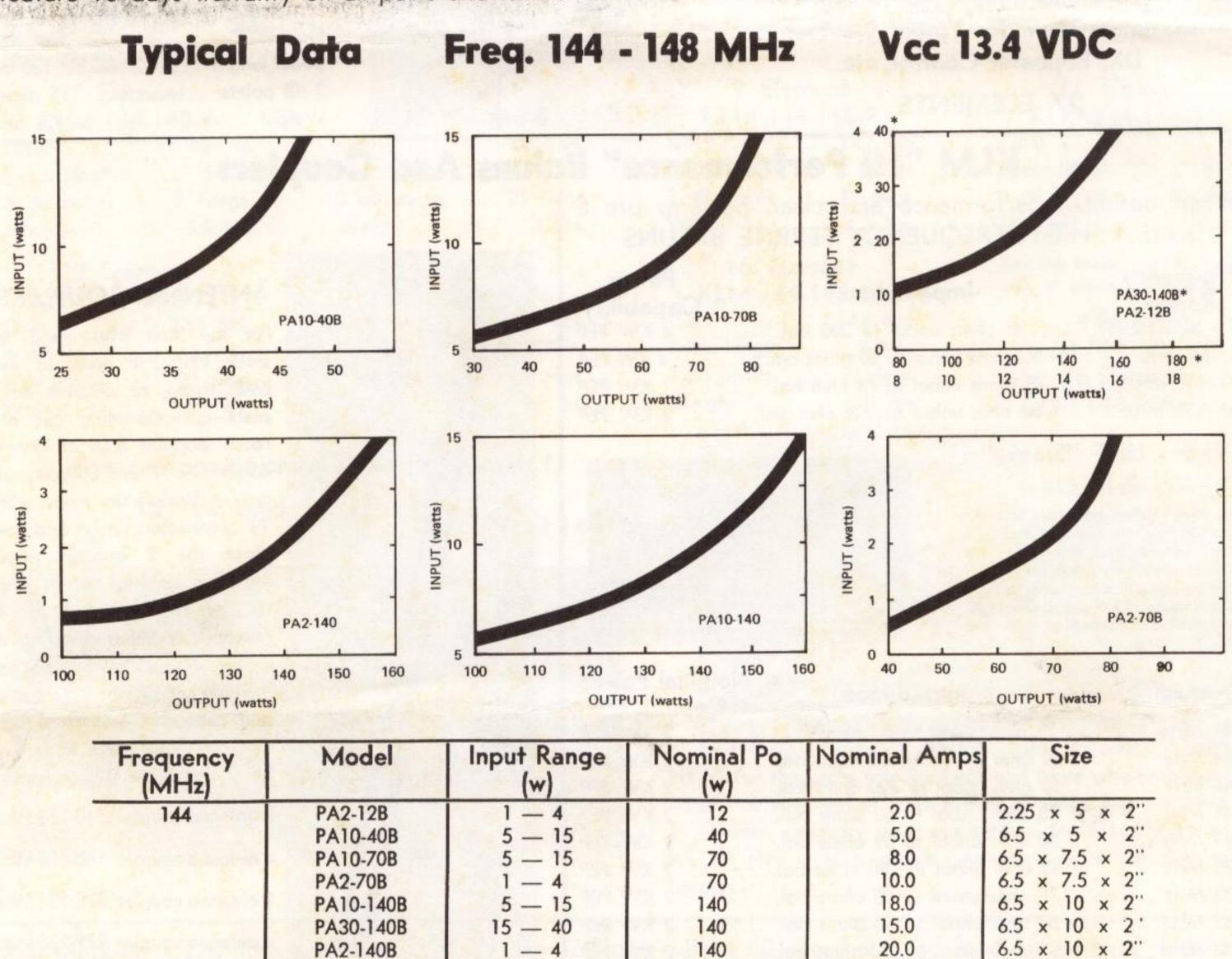




PA2 - 12B

PA 10 - 140 - B

KLM ELECTRONICS announces a major breakthrough in VHF FM power amplifier pricing. KLM has made it possible for everyone to have a "big signal" at the right price by designing amplifiers to take advantage of the latest in reliable RF power transistors and micro-stripline construction. All KLM amplifiers feature the latest state-of-the-art no compromise features. No tuning micro-stripline circuits designed to take any phase of SWR and still provide reliable, optimum performance. Either automatic or manual switching and the RF inputs are compatible with the popular FM transceivers. Compact too as the typical popular 6-1/2 x 71/2 x 2 inch size shows. Stable, clean performance from 11.5 to 14.5 volts. And, oh yes, all amplifiers feature 90 days warranty on all parts and labor.



Add \$2.00 per amplifier for PPD U.S.A.

Prices subject to change without notice.

California residents add 6%.

Contact your local distributor or:

KIM ELECTRONICS

"THE COMMUNICATIONS EQUIPMENT INNOVATORS"

1600 Decker • San Martin, California 95046

(408) 683-4240

Your local distributor is:

ELECTRONICS

Antennas

Amplifiers

1600 Decker Ave. San Martin, CA 95046 [408] 683-4240

PRICE LIST EFFECTIVE MAY 1, 1974

	PRICE LIST EFFECTIVE MAY 1, 1974				
KLM PART NO.	LIST PRICE	DEALER NET QTY. 1-9	DEALER NET QTY. 10-UP	QTY. ORDERED	
ANTENNAS			222710 02		
KLM 13-30-7	\$289.00				
KLM 13.9-14.4-5	219.95				
KLM 21.0-21.5-6	224.95				
KLM 15-10-DUO	335.95				
KLM 35-130-14	159.95				
KLM 50-52-11	97.29				
KLM 50-52-8	60.49				
KLM 144-148-7	23.79				
KLM 144-148-8	29.19				
KLM 144-148-9	34.49				
KLM 144-148-11	38.79				
KLM 144-148-12	42.19				
KLM 144-148-14	49.69				
KLM 144-148-16	53.95				
KLM 144-150-12C	54.95				
KLM 219-226-7	20.49				
KLM 219-226-9	22.69				
KLM 219-226-11	28.19				
KLM 219-226-14	37.79				
KLM 440-520-6	15.19				
KLM 420-470-14	21.55				
KLM 420-250-27	41.95				
BALUNS, ALL	13.95				
ANTENNA COUPLERS					
KLM 140-150-2	19.95				
KLM 140-150-4	25.95				
KLM 210-230-2	18.55				
KLM 210-230-4	23.55				
KLM 400-470-2	16.95				
KLM 400-470-4	22.95				
2 METER AMPLIFIERS					
PA 2-12B	44.95				
PA 10-40B	79.95				
PA 10-70B	129.95				
PA 2-70B	149.95				
PA 30-140B	169.95				
PA 10-140B	189.95				
PA 2-140B	219.95				