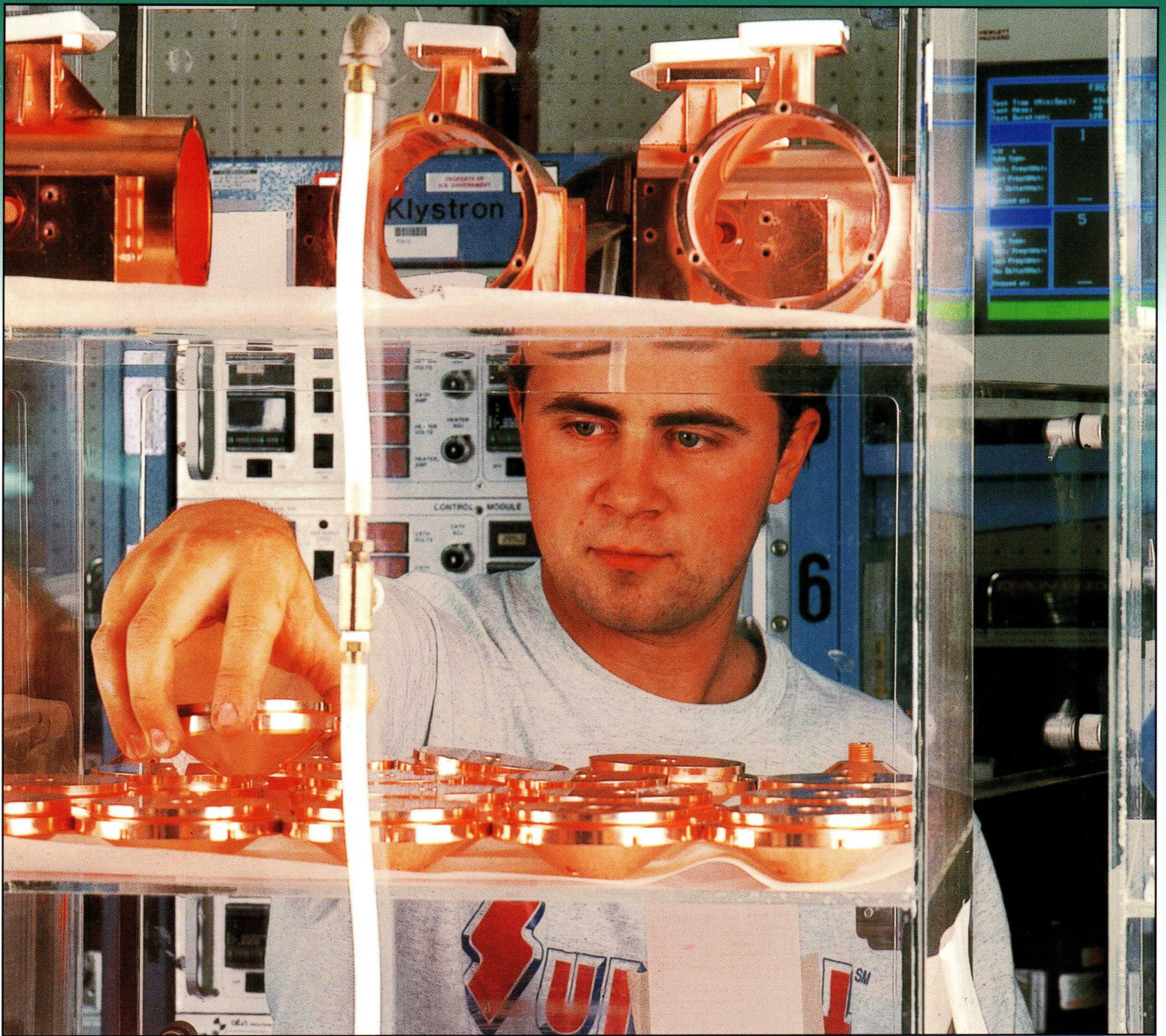


Litton Klystrons





KLYSTRON AMPLIFIERS

TUBE TYPE	OPERATING FREQUENCY (GHz)	OUTPUT POWER (kW)	GAIN (dB)	BANDWIDTH (-3 dB) (MHz)	BEAM VOLTAGE (kV)	BEAM CURRENT (A)	HEATER VOLTAGE (V)	HEATER CURRENT (A)	FOCUSING ³	COOLING ⁴	WEIGHT (TUBE & MAGNET) (LBS.)	TUNING ⁵
L-4941	1.40-1.50	5.0	35	6	11.6	1.3	7.3	4.3	PM	L	100	F
L-4807	4.40-5.00	1.2	43	7	7.5	0.55	6.5	8.2	PM	FA	40	G
L-4807A	4.40-5.00	1.4	43	7	8.0	0.60	6.5	8.2	PM	FA	40	G
L-4857	4.40-5.00	1.6	4	14(-1 dB)	6.9	0.62	6.0	5.5	PM	FA	70	C
L-4840	4.40-5.00	2.6	43	16 (-1 dB)	7.8	0.77	6.0	5.5	PM	FA	70	C
L-4892	5.850-6.450	3.35	40	45(-1 dB)	8.3	1.10	6.0	6.5	PM	FA	75	CH
L-4893	5.925-6.425	3.35	40	45(-1 dB)	8.3	1.10	6.0	6.5	PM	FA	75	CH
L-4863	7.90-8.40	0.83	45	40(-1 dB)	5.6	0.47	6.0	6.5	PM	FA	36	C
L-4891	7.90-8.40	1.40	45	50(-1 dB)	7.0	0.63	6.0	6.5	PM	FA	55	CH
L-4864	7.90-8.40	1.63	45	40(-1 dB)	7.1	0.62	6.0	6.5	PM	FA	43	C
L-4862	10.00-10.25	0.2	36	10	4.65	0.25	4.9	2.0	PM	FA	8	M
L-4867	10.00-10.25	2.5	26	10	11.0	1.00	8.5	2.8	PM	L	50	M
L-4828	10.25-10.50	5.0	53	10	15.0	1.40	5.3	5.4	EM	L	250	M
L-4811 ¹	10.25-10.50	5.0	50	50(-1 dB)	14.0	1.45	5.3	5.4	EM	L	250	CH
L-4812 ²	10.25-10.50	5.0	50	50(-1 dB)	14.0	1.45	5.3	5.4	EM	L	250	CH
L-4830	11.70-13.25	0.04	37	20(-1dB)	2.2	0.12	6.3	1.2	PM	C	7.3	M

1 WR-112 Output Flange

2 WR-90 Output Flange

3 FOCUSING

PM: Permanent Magnet
 PM-H Permanent Magnet with High-Energy, Rare-Earth Composition
 EM: Electromagnet
 ES: Electrostatic

4 COOLING

C: Conduction
 FA: Forced-Air
 L: Liquid

5 TUNING

M: Manual
 G: Ganged
 C: Counter
 CH: Channel
 F: Fixed



As a major manufacturer of medium-power klystrons for both military and commercial applications, Litton produces devices which cover a broad spectrum of output power and frequency ranges. Applications for the medium-power klystrons include:

- Local oscillators
- Low-noise master oscillators (cavity stabilized)
- Pulsed or CW radar amplifiers
- Troposcatter communication amplifiers
- Satellite communication amplifiers
- Communication links
- Scientific
- Linear accelerators

Litton's ability to supply improved klystrons and to repair competitors' tubes has been demonstrated in a variety of government and commercial systems. As a part of the Williamsport facility's extensive line of microwave power tubes including magnetrons, crossed-field amplifiers, TWTs, and thyratrons, these devices feature state-of-the-art technology critical to application success.



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