

LITTON INDUSTRIES MICROWAVE TUBES P, L, S, C, X, K BANDS

file Litton

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PULSE MAGNETRONS

Type Number	Frequency Range Megacycles	Peak Power (Min.) KW	Duty Ratio	Remarks
L-3204 ✓	8800±25	0.04	0.25	Extremely high duty
L-3105 ✓	9300±40	0.10	0.027	Highly ruggedized; frequency stable
L-3028 ✓	9280 to 9320	0.12	0.027	Frequency stable; pulse train capability
L-3379 ✓	8800 to 9500*	1.0	0.003	Highly ruggedized; frequency stable
L-3058 ✓	9330 to 9350*	1.0	0.003	Frequency stable
L-3358 ✓	16,000 to 16,500*	1.0	0.001	Highly ruggedized; frequency stable
L-3380 ✓	8800 to 9500*	2.0	0.002	Highly ruggedized; frequency stable
L-3359 ✓	16,000 to 16,500*	2.0	0.001	Highly ruggedized; frequency stable
L-3381 ✓	8800 to 9500*	3.0	0.001	Highly ruggedized; frequency stable
L-3382 ✓	8800 to 9500*	4.0	0.001	Highly ruggedized; frequency stable
LT-6233 ✓	9280 to 9345	7.0	0.003	High duty beacon magnetron
L-3103 ✓	8500 to 9600*	30.0	0.002	High duty version of LT-6543
L-3168 ✓	9375±30	30.0	0.002	High duty version of LT-4J52A
L-3306 ✓	16,000 to 17,000*	30.0	0.002	High duty version of L-3083A
L-3083A ✓	16,000 to 17,000*	60.0	0.001	Recommended for new systems
LT-6543A ✓	8500 to 9600*	65.0	0.001	Recommended for MTI systems
L-3305 ✓	8600 to 9500*	65.0	0.001	Recommended for frequency diversity
LT-6510 ✓	9375±30	65.0	0.001	Recommended for MTI systems
LT-4J52A ✓	9375±30	70.0	0.001	Recommended for new systems
L-3312 ✓	8500 to 9600*	200.0	0.001	In development
L-3313 ✓	8600 to 9500*	200.0	0.001	Hydraulically tunable for frequency diversity
LT-4J50A ✓	9375±30	225.0	0.001	Recommended for new systems

*Fixed frequency versions available generally throughout tunable range.

KLYSTRONS

Type Number	Frequency Range Megacycles	Peak Power (Minimum) Megawatts	Cathode Pulse Length Micro-seconds	RF Duty Ratio	Remarks
✓ L-3270	1250 to 1350	2	8	0.0025	Broadband (100 megacycles between 2 megawatt points)
✓ LT-7504 (L-3035)	1240 to 1360	2.2	8	0.0025	Long range search radar
✓ L-3257	1280 to 1330	4	30	0.0003	For linear accelerator
✓ L-3227	1280 to 1330	5	8	0.002	For linear accelerator
✓ L-3250	1250 to 1350	10	7.2	0.0015	Long range search radar and linear accelerator
✓ L-3387	1250 to 1350	30	7.2	0.0033	Long range search radar
✓ L-3302	2855	10	7.2	0.0015	For linear accelerator and radar
✓ L-3355	1250 to 1350	20	7.2	0.0015	Long range search radar

TRAVELING WAVE TUBES

Type Number	Frequency Range Megacycles	Power Output	Focusing	Duty Factor
L-3266 ✓	7000 to 11,000	20 mw	PPM	CW
L-3236 ✓	7000 to 11,000	2 W	PPM	CW
L-3470 ✓	4000 to 8000	20 mw	PPM	CW
L-3471 ✓	4000 to 8000	2 W	PPM	CW
L-3472* ✓	8500 to 9600 7000 to 11,000	10 W 5 W	PPM	CW
L-3264* ✓	100 to 300	100 W	Solenoid	CW

* In development

M-TYPE BACKWARD WAVE OSCILLATORS

Type Number	Frequency Range Megacycles	Power Output	Focusing	Factor	Remarks
✓ L-3148	8500 to 11,000	150 watts minimum	Permanent magnet	CW	No holes in a 1.5/1VSWR

A complete line of M-BWO's is available but classified

CW MAGNETRONS

Type Number	Frequency Range Megacycles	Minimum Power Watts	Remarks
L-3456 ✓	350-590	500	These CW Magnetrons may be pulsed to approximately 2 kilowatts peak power and are recommended for component testing.
L-3459 ✓	590-975	500	
L-3465 ✓	975-1500	400	
L-3464 ✓	1500-2350	400	
L-3460 ✓	2350-3575	500	
L-3461 ✓	3575-4975	400	
L-3467 ✓	4975-6175	400	
L-3468 ✓	6175-7275	300	
L-3462 ✓	7275-8775	300	
L-3463 ✓	8775-10,475	250	

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"CAPABILITY THAT
CAN CHANGE
YOUR PLANNING"



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