

# 3 – Terminal Voltage Regulator

TYPE NO.	CASE	MAXIMUM RATINGS			OUTPUT VOLTAGE				LINE REGULATION		LOAD REGULATION		RIPPLE REJECTION
		Pd (W)	I <sub>O</sub> (A)	V <sub>I</sub> (V)	min	typ.	max	V <sub>I</sub> (V)	(mV) max	ΔV <sub>I</sub> (V)	(mV) max	ΔI <sub>O</sub> (mA)	(dB) min
ML78L02A	TO-92	0.5	0.1	30	2.47	2.6	2.73	9	125	4.75 ~ 20	50	1 – 100	43
ML78L05A	TO-92	0.5	0.1	30	4.75	5.0	5.25	10	200	7 ~ 20	60	1 – 100	40
ML78L06A	TO-92	0.5	0.1	30	5.7	6.0	6.3	12	200	8.5 ~ 20	80	1 – 100	40
ML78L08A	TO-92	0.5	0.1	30	7.6	8.0	8.4	14	225	10.5 ~ 23	100	1 – 100	39
ML78L09A	TO-92	0.5	0.1	30	8.55	9.0	9.45	15	250	11.5 ~ 23	100	1 – 100	38
ML78L12A	TO-92	0.5	0.1	35	11.4	12.0	12.6	19	250	14.5 ~ 27	100	1 – 100	37
ML78L15A	TO-92	0.5	0.1	35	14.3	15.0	15.7	23	300	17.5 ~ 30	150	1 – 100	34
ML78L18A	TO-92	0.5	0.1	40	17.1	18.0	18.9	27	320	22 ~ 33	160	1 – 100	33
ML78L20A	TO-92	0.5	0.1	40	19.0	20.0	21.0	29	330	23 ~ 34	180	1 – 100	32
ML78L24A	TO-92	0.5	0.1	40	22.8	24.0	25.2	33	350	27 ~ 38	200	1 – 100	32
ML78M05A	TO-220	7.5*	0.5	35	4.8	5.0	5.2	10	50	7 ~ 25	50	5 – 500	60
ML78M06A	TO-220	7.5*	0.5	35	5.75	6.0	6.25	11	60	8 ~ 25	60	5 – 500	59
ML78M08A	TO-220	7.5*	0.5	35	7.3	8.0	8.3	14	60	10.5 ~ 30	80	5 – 500	56
ML78M09A	TO-220	7.5*	0.5	35	8.65	9.0	9.35	15	60	12 ~ 25	90	5 – 500	56
ML78M12A	TO-220	7.5*	0.5	35	11.5	12.0	12.5	19	60	14.5 ~ 30	80	5 – 500	55
ML78M15A	TO-220	7.5*	0.5	35	14.4	15.0	15.6	23	60	17.5 ~ 30	150	5 – 500	54
ML78M18A	TO-220	7.5*	0.5	40	17.3	18.0	18.7	27	60	21 ~ 33	180	5 – 500	53
ML78M20A	TO-220	7.5*	0.5	40	19.2	20.0	20.8	29	60	23 ~ 35	200	5 – 500	53
ML78M24A	TO-220	7.5*	0.5	40	23.0	24.0	25.0	27	60	21 ~ 33	240	5 – 500	50
ML7805A	TO-220	16 ●	1	35	4.8	5.0	5.2	10	50	7 ~ 25	80	5 – 1500	68
ML7806A	TO-220	16 ●	1	35	5.75	6.0	6.25	11	60	8 ~ 25	90	5 – 1500	65
ML7808A	TO-220	16 ●	1	35	7.7	8.0	8.3	14	80	10.5 ~ 25	110	5 – 1500	62
ML7809A	TO-220	16 ●	1	35	8.65	9.0	9.35	15	90	11.5 ~ 25	150	5 – 1500	62
ML7812A	TO-220	16 ●	1	35	11.5	12.0	12.5	19	120	14.5 ~ 30	150	5 – 1500	61
ML7815A	TO-220	16 ●	1	35	14.4	15.0	15.6	23	150	17.5 ~ 30	180	5 – 1500	60
ML7818A	TO-220	16 ●	1	40	17.3	18.0	18.7	27	180	21 ~ 33	210	5 – 1500	59
ML7820A	TO-220	16 ●	1	40	19.2	20.0	20.8	29	200	23 ~ 35	230	5 – 1500	58
ML7824A	TO-220	16 ●	1	40	23.0	24.0	25.0	33	240	27 ~ 38	270	5 – 1500	56
ML79L03A	TO-92	0.5	0.1	-30	-2.88	-3.00	-3.12	-10	60	-7 ~ -20	72	1 – 100	45
ML79L05A	TO-92	0.5	0.1	-30	-4.8	-5.0	-5.2	-10	150	-7 ~ -20	60	1 – 100	41
ML79L09A	TO-92	0.5	0.1	-30	-8.64	-9.00	-9.36	-15	200	-11.5 ~ -24	90	1 – 100	38
ML79L12A	TO-92	0.5	0.1	-30	-11.5	-12.0	-12.5	-19	250	-14.5 ~ -27	100	1 – 100	37
ML79L15A	TO-92	0.5	0.1	-30	-14.4	-15.0	-15.6	-23	300	-17.5 ~ -30	150	1 – 100	34
ML79L18A	TO-92	0.5	0.1	-30	-17.3	-18.0	-18.7	-27	325	-20.7 ~ -33	170	1 – 100	33
ML79L24A	TO-92	0.5	0.1	-40	-23	-24	-25	-33	350	-27 ~ -38	200	1 – 100	31
ML79M05A	TO-220	7.5*	0.5	-35	-4.8	-5.0	-5.2	-10	50	-7 ~ -25	50	5 – 500	50
ML79M06A	TO-220	7.5*	0.5	-35	-5.75	-6.0	-6.25	-11	60	-8 ~ -25	60	5 – 500	50
ML79M08A	TO-220	7.5*	0.5	-35	-7.7	-8.0	-8.3	-14	80	-10.5 ~ -25	80	5 – 500	50
ML79M09A	TO-220	7.5*	0.5	-35	-8.65	-9.0	-9.35	-15	80	-11.5 ~ -25	90	5 – 500	50
ML79M12A	TO-220	7.5*	0.5	-35	-11.5	-12.0	-12.5	-19	80	-14.5 ~ -30	120	5 – 500	54
ML79M15A	TO-220	7.5*	0.5	-35	-14.4	-15.0	-15.6	-23	80	-17.5 ~ -30	150	5 – 500	54
ML79M18A	TO-220	7.5*	0.5	-40	-17.5	-18.0	-18.7	-27	80	-21 ~ -30	180	5 – 500	54
ML79M24A	TO-220	7.5*	0.5	-40	-23.0	-24.0	-25.0	-33	80	-27 ~ -38	240	5 – 500	54
ML7905A	TO-220	16 ●	1	-35	-4.8	-5.0	-5.2	-10	50	-7 ~ -25	80	5 – 1500	54
ML7906A	TO-220	16 ●	1	-35	-5.75	-6.0	-6.25	-11	60	-8 ~ -25	90	5 – 1500	54
ML7908A	TO-220	16 ●	1	-35	-7.7	-8.0	-8.3	-14	80	-10.5 ~ -25	110	5 – 1500	54
ML7909A	TO-220	16 ●	1	-35	-8.65	-9.0	-9.35	-15	90	-11.5 ~ -25	120	5 – 1500	54
ML7912A	TO-220	16 ●	1	-35	-11.5	-12.0	-12.5	-19	120	-14.5 ~ -30	150	5 – 1500	54
ML7915A	TO-220	16 ●	1	-35	-14.4	-15.0	-15.6	-23	150	-17.5 ~ -30	180	5 – 1500	54
ML7918A	TO-220	16 ●	1	-40	-17.3	-18.0	-18.7	-27	180	-21 ~ -33	210	5 – 1500	54
ML7924A	TO-220	16 ●	1	-40	-23.0	-24.0	-25.0	-33	240	-27 ~ -38	270	5 – 1500	54

\* TC ≤ 75°C

● TC ≤ 45°C