

LM317 regulator parts for +3,3V output							
Reference Designator	Qty	Value	Type	Example Mouser P/No	Example TME P/No	PCB Lead Spacing	Notes
C1	1	0,15uF >63V AC	Radial film capacitor	871-B32529C3154J	MKP4F031503F00JSSD	7,5 mm 10 mm	
C2	1	10 nF > 63V AC	Radial film capacitor	871-B32529C3103M189	R79MC2100Z340J	5 mm 7,5 mm	
C3,C4	2	10.000 uF/16V	Radial Aluminium Electrolytic	647-UPW1C103MHD	UPW1C103MHD	7,5 mm Ø18 mm	
C5	1	220 uF/25V	Radial Aluminium Electrolytic	667-EEU-FM1E221B		5 mm Ø8 mm	
C6	1	22 nF/100V	Radial Ceramic	810-FA24C0G2A223JRU6		5 mm	
C7	1	22 uF >16V	Radial Aluminium Electrolytic			5 mm Ø5 mm	
C8	1	100 uF/63V	Radial Aluminium Electrolytic		EEUFC1J101	5 mm Ø10 - 16 mm	ESR (100 kHz) in range 180 to 300 mΩ
C9	1	22 uF >16V	Radial Aluminium Electrolytic			5 mm Ø5 mm	
R1	1	10 - 47R *	Metal film	0,6 W - 1 W		12,7 mm	Quasimodo jig determined
R2	1	4,7R *	Metal film 2 -3 W	594-5083NW4R700JA100	PR02000204708JA100	25,40 mm	Load current up to 0,15 A
		2,7R					Load current from 0,15 A to 0,35 A
		1,5R					Load current from 0,35 A to 0,6 A
		1R					Load current from 0,6 A to 1 A
R3	1	220R	Metal film 0,25 W			10,16 mm	
R4	1	330R	Metal film 0,25 W	71-CMF55510R00FKR6		10,16 mm	
R5	1	270R	Metal film 0,25 W			10,16 mm	
R6	1	330R	Metal film 0,25 W			10,16 mm	
R7	1	91K	Metal film 0,25 W			10,16 mm	
R8	1	22R	Metal film 0,25 W	71-CMF5533R200FHEK		10,16 mm	
R9	1	220R	Metal film 0,25 W			10,16 mm	
R10	1	0R	Wire jumper				
RV1	1	100R		652-3266W-1-101LF	3266W-1-101LF		
D1,D2,D3,D4 *	4	MUR120 *	Soft recovery diode 1A		MUR120RLG		Load current up to 0,35 A
		SBYV27-200	Soft recovery diode 2A	625-SBYV27-200-E3/73			Load current from 0,35 A to 1 A
D5	1	1N4004	Diode 1A	621-1N4004			
D6,D7	2	1N4148	Fast switching diode	512-1N4148TR			
D8	1		3 mm LED				
U1	1	LM317		863-LM317MBTG	LM317BTG		
Q1	1	BC327-40		512-BC32740TA			
		ZTX951		522-ZTX951			For extremely low noise level
Q2	1	BC337-40		512-BC33740TA			
		ZTX851		522-ZTX851			For extremely low noise level
Heatsink	1	** load dependant	Fischer elektronik SK129		SK129-25STS		Load current up to 0,35A
					SK129-38STS		Load current from 0,35 A to 0,6 A
					SK129-50STS		Load current from 0,6 A to 1 A
			Ohmite	588-FA-T220-38E			Load current up to 1 A
			Aavid	532-6398B			Load current up to 1 A
			Aavid	532-529902B25G			Load current up to 1 A
LM337 regulator parts for -3,3V output							
All parts same as for positive regulator, except LM337 and additional R11							
R11	1	33R	Metal film 0,25 W			10,16 mm	
U1	1	LM337		863-LM337BTG	LM337TG		