

EUROPEAN CIRCUITS LIMITED - EXAMPLE BILL OF MATERIALS (BOM)

1	2	3	4	5	6	7	8	9	10	11
Sequential Item Nos	Consolidated quantity of each Part No	Component ID's separated by Commas	Confirmation Yes or No Parts are fitted this Build (Note 1)	Full Description of Part e.g. for capacitor include value, tolerance and type or Dielectric	Value or Type No	Case Style	Supplier or Manufacturer (Note 2)	Supplier Stock No or Manufacturer's Part No (Note 2)	Side of Board Mounted	PTH or SMT
Item	Qty	Reference	Fit	Part Description	Value	Package	Supplier	Supplier Ref	Side	Mount Type
1	2	C1,C3	Y	Capacitor 0.1uF 25V X7R ceramic nickel barrier	0.1uF	805	FEC	644-249	1	S
1	0	C2	N	Capacitor 0.1uF 25V X7R ceramic nickel barrier	0.1uF	805	FEC	644-249	1	S
2	2	C4,C6	Y	Capacitor 22pF 50V +/-5% COG Multi Ceramic	22pF	805	FEC	975-3567	1	S
3	3	C5,C7,C9	Y	Capacitor 150pF 50V +/- 5% NPO ceramic nickel barrier	150pF	603	Phycomp	CC0603JRNPO9BN151	1	S
4	1	C8	Y	Capacitor 330pF 50V +/- 10% X7R Multi Ceramic	330pF	805	FEC	301-9846	1	S
5	1	C10	Y	Capacitor 1nF 50V +/-5% NPO Multi Ceramic	1nF	805	FEC	317-457	1	S
6	4	C11,C12,C14,C18	Y	Capacitor 10nF 25V +/-10% X7R ceramic nickel barrier	10nF	805	FEC	301-9767	2	S
7	1	C13	Y	Capacitor 47nF 630V, 10% Polyester	47nF	5mm	FEC	151-9313	1	P
8	1	C15	Y	Capacitor 100nF 50V Ceramic Disc	100nF	5mm	FEC	941-1887	1	P
9	2	C16,C17	Y	Capacitor 330nF 16V +/-10% X7R Capacitor dielectric	330nF	805	FEC	940-6328	1	S
10	2	D1,D2	Y	Diode RS1J SMD Fast 1.0A 600V	RS1J	DO-214AC(SMA);	FEC	955-0143	1	S
11	0	D3	N	Diode ES2D Fast recovery 2A 200V	ES2D	SMB	FEC	954-9269	1	S
12	3	D4,D7,D8	Y	Diode BAT754 Schottly Single 0.2A 25V	BAT754	SOT-23	FEC	108-1203	1	S
13	3	D5,D6,D9	Y	Diode BAS70-05 Dual Schottly Common Cathode 0.1A 70V	BAS70-05	SOT-23	FEC	108-1186	1	S
14	1	D10	Y	Diode BAT754S Dual Schottly Series 0.2A 25V	BAT754S	SOT-23	FEC	108-1206	1	S
15	1	D11	Y	Diode S2M 2A 1000V Fast Recovery	S2M	DO-214AA(SMB)	FEC	984-3876	1	S
16	1	F1	Y	Fuse 1A.20X5mm	1A	20mm	FEC	444-8080	1	P
17	1	JP1	Y	Header 1 Row 3 way	3-way	2.54mm	FEC	102-2249	1	P
18	0	JP2	N	Header 1 Row 2 way	2-way	2.54mm	FEC	102-2247	1	P
19	4	K1,K2,K3,K4	Y	Relay 12V DPCO EA2 140mW 1028 Ohm coil	EA2-12NU	See datasheet	FEC	1094031	1	P
20	1	L1	Y	INDUCTOR, 47UH 1.4 Amps Toko 822LY-470K	47uH	5mm pitch	FEC	119-3632	1	P
21	2	LED1,LED2	Y	LED 3mm ultra bright red	KA-3022SRC-4.5SF	smd	FEC	114-2617	1	S
22	1	Q1	Y	MOSFET FCB11N60	FCB11N60	TO-263 (D2-Pak)	FEC	109-4999	1	P
23	1	Q2	Y	MosFet IRF840SPBF N-Channel 500V 8A 0.85R VGT 2-4V	IRF840SPBF	TO-263 (D2-Pak)	FEC	864-8590	1	P
24	1	Q4	Y	MosFet IRF7402PBF N-Channel 20V 6.8A 0.035R VGT min 0.7V	IRF7402PBF	SO-8	FEC	910-2850	1	S
25	4	R1,R4,R5,R8	Y	Resistor 0R2 1% 2W 100ppm/K Thick Film	0R2	2512	FEC	110-0068	1	S
26	1	R2	Y	Resistor 1R 1% 0.25W 50ppm/K Thick Film MMA0204	1R	204	FEC	308-7426	1	S
27	2	R3,R6	Y	Resistor 10R 1% 0.2W 50ppm/K Thick Film MMU0102	10R	805	FEC	121-5878	1	S
28	1	R7	Y	Resistor 22R 1% 0.2W 50ppm/K Thick Film MMU0102	22R	102	FEC	121-5886	1	S
29	2	R9,R10	Y	Resistor 22R 5% 3W 300ppm/K Metal Film Power	22R	15 x 5.5mm	FEC	327-8013	1	P
30	1	R11	Y	Resistor 120R 1% 0.2W 50ppm/K Thick Film MMU0102	120R	805	FEC	121-5907	1	S
31	1	R12	Y	Resistor 130R 1% 0.2W 50ppm/K Thick Film MMU0102	130R	805	FEC	1215908	1	S
32	2	U1	Y	IC LM78L05ACM SM REGULATOR LDO +5.0V	LM78L05ACM	SOIC (Narrow)	FEC	9489436	1	S
33	1	U2	Y	IC UC3843AD8 PWM Controller	UC3843AD8	SOIC	FEC	110-1425	1	S
34	1	U3	Y	IC LM79L05ACM Sm Regulator -5V 100mA	LM79L05ACM	SOIC (Narrow)	FEC	9490345	1	S
35	2	U4,U7	Y	IC HCPL7800#300E optocoupler	HCPL7800#300E	See datasheet	EBV	HCPL7800#300E	2	S
36	1	U5	Y	IC ISO124U OP AMP ISOLATION	ISO124U	SOP	FEC	121-2426	1	S
37	1	U6	Y	HCPL0201 optocoupler	HCPL0201	SO8	FEC	999-5404	2	S