

Division 6 Dual Mini Synthesizer BOM

Part #	Qty / Unit	Part Name	Vendor	Vendor Part #
Capacitors				
C1, C7, C8	3	Cap Electrolytic Radial - 10uF 16V	Mouser	667-EEA-GA1C100
C2	1	Cap Electrolytic Radial - 100uF 6.3V	Mouser	647-USR0J101MDD
C3, C6	2	Cap Ceramic Radial - .1uF	Mouser	SR155C104KAR
C4, C5	2	Cap Ceramic Radial - 1nF	Mouser	581-SR155C102KAR
Diodes				
D9	1	1N4148	Mouser	512-1N4148
LEDs				
D1, D5	2	LED 3mm - Red Diffused	LED-Switch	L03RD
D2, D6	2	LED 3mm - Yellow Diffused	LED-Switch	L03YD
D3, D7	2	LED 3mm - Blue Diffused	LED-Switch	L03BD
D4, D8	2	LED 3mm - True Green Diffused	LED-Switch	L03PGD
Connectors				
J1, J2, J3, J4, J5, J6, J7, J8, J9, J10, J11, J12, J13, J14, J15, J16, J17, J18, J19, J20, J21, J22, J23, J24, J25, J26	26	Jack, 3.5mm, PCB-Mount, Switched Mono	Modular Addict, synthCube, Thonk	WQP518MA
P3	1	Header 4-Wall - 10 Pin	Mouser	517-30310-6002
PCBs / Panels				
PCB1	1	Dual Mini Synthesizer Main Board	Division 6	DMSYNTHCOMBO
PCB2	1	Dual Mini Synthesizer Front Panel	Division 6	DMSYNTHCOMBO
Potentiometers				
R1, R2, R3, R4, R5, R6, R8, R9, R10, R11, R12, R13, R14, R15, R16, R17, R18, R19, R21, R22, R23, R24, R25, R26	24	9mm Potentiometer Plastic Pointer Shaft - 10k	Tayda Electronics	A-1850
R7, R20	2	9mm Potentiometer Plastic Pointer Shaft - 1M	Tayda Electronics	A-1864
Resistors				
R27, R42	2	Resistor, 1/8-watt - 510 ohm	Mouser	299-510-RC
R28, R29, R30, R32, R33, R34, R35, R36, R37, R38, R39, R40, R41, R43, R44, R45, R47, R48, R49, R50, R51, R52, R53, R54, R55, R56	26	Resistor, 1/8-watt - 1k	Mouser	299-1K-RC
R31, R46	2	Resistor, 1/8-watt - 4.7k	Mouser	299-4.7K-RC
Switches				
S1, S2, S3, S4	4	Tact Switch - 6mm x 13mm high	Mouser	506-2-1825910-7
ICs				
U1, U2	2	PIC16F1718-I/SP (Preprogrammed)	Division 6	DMSYNTHCOMBO
Voltage Reg.				
VR1	1	L4931CZ50 (TO-92)	Mouser	511-L4931CZ50-AP
Hardware				
	2	IC Socket, 0.3" wide, 28 pin	Jameco	112300
	2	Hex Standoff - 0-80 x 3/8"	McMaster-Carr	91780A027
	2	Pan-Head Screw, Zinc - 0-80 x 1/8"	McMaster-Carr	90272A020
	2	Pan-Head Screw, Black - 0-80 x 1/8"	McMaster-Carr	91249A010
	8	LED Spacer - 3mm x 7mm tall	AlliExpress	
Power Cable				
	1	1 Foot 10-Conductor Ribbon Cable	Mouser	566-9L26010
	1	10 Pin IDC Connector	Mouser	164-9006-E
	1	16 Pin IDC Connector	Mouser	164-9008-E
Euro-rack Screws				
	4	Pan-Head Screw, Black - M3 x 6mm	McMaster Carr	95836A205
	4	Nylon Washer, Black - #4	McMaster Carr	90295A359