

KV60 DG5 Emulator

Bill of Materials

Qty	Part Name	Description	Part Number	Source	Notes
1	Arduino	Arduino Uno - R3	DEV-11021	SparkFun	Arduino's are available at Radioshack, Amazon, Ebay, etc. http://www.kv60.com/wordpress/?page_id=192
1	DG5	DG5 Emulator Shield for Arduino	DG5	KV60	
1	LCD display	16X2 LCD display	LCD-00255	SparkFun	
1	Shield Headers	Arduino Stackable Header Kit	PRT-10007	SparkFun	
2	LCD Jumpers	Jumper Wire - 0.1", 6-pin, 4"	PRT-10366	SparkFun	
1	LED1	LED - Basic Green 3mm	COM-09650	SparkFun	
1	Headers	Break Away Headers - Straight	PRT-00116	SparkFun	
3	JP1 - JP3	RCA Jack	PRT-08631	SparkFun	
1	PWR_JCK	DC Barrel Power Jack/Connector	PRT-00119	SparkFun	PWR_JCK only needed with on board regulator
1	R8	Carbon Film Resistors - Through Hole 6.2ohms 0.05	291-6.2-RC	Mouser	
6	C6-C11	Multilayer Ceramic Capacitors MLCC - Leaded 50volts 0.01uF 10% X7R	581-SR155C103KATR1	Mouser	
7	C1-C5, C12-C13	Multilayer Ceramic Capacitors MLCC - Leaded 50volts .1uF 20%	581-SR295E104MAA	Mouser	C12-C13 only needed with on board regulator
4	Socket for IC1-IC3, IC5	IC & Component Sockets 16P DUAL WIPE DIPSKT	517-4816-3000-CP	Mouser	
1	Socket for IC4	IC & Component Sockets 14P DUAL WIPE DIPSKT	517-4814-3004-CP	Mouser	
1	D7	1N4001 - Rectifiers Vr/50V Io/1A T/R	512-1N4001	Mouser	D7 only needed with on board regulator
1	IC6	7805 - Linear Voltage Regulators 5V 1A Postive	863-MC7805CTG	Mouser	IC6 only needed with on board regulator
6	D1-D6	1N4148 - Diodes - General Purpose, Power, Switching 100V Io/200mA BULK	512-1N4148	Mouser	
1	R7	Trimmer Resistors - Through Hole 10K 25% 6mm Single Turn	652-3306F-1-103	Mouser	
1	IC5	74HC153 - Encoders, Decoders, Multiplexers & Demultiplexers Dual Line	595-SN74HC153N	Mouser	
3	R1-R2, R4	Carbon Film Resistors - Through Hole 1.0Kohms 0.05	299-1K-RC	Mouser	
1	R3	Carbon Film Resistors - Through Hole 100ohms 5%	299-100-RC	Mouser	
1	IC4	74HC93 - Counter ICs Hi-Spd CMOS Logic 4-Bit Bnry Rpl Cntr	595-CD74HC93E	Mouser	
3	IC1-IC3	74HC4046 - Phase Locked Loops - PLL PLL w/ VCO	CD74HC4046AE	Mouser	
1	JP4	Future Jumper - not populated			