

Supplier	Order Number	Part Number	Manufacturer	Description (Specification)
<b>Power MOSFETS</b>				
Farnell	8648344	IRF630NPBF	Infineon	Power MOSFET (200 V, 9.3 A, 0.3 $\Omega$ , TO-220)
Farnell	8648379	IRF640NPBF	Infineon	Power MOSFET (200 V, 18 A, 0.15 $\Omega$ , TO-220)
<b>Power Diodes</b>				
Farnell	2675099	MBR10100+	Multicomp	Schottky Rectifier (100 V, 10 A, 850 mV, TO-220AC)
Farnell	9803599	STPS8H100D	ST	Schottky Rectifier (100 V, 8 A, 580 mV, TO-220AC)
<b>General Use Diodes</b>				
Farnell	9556109	1N4004RL	Onsemi	Standard Recovery Diode (400 V, 1 A, 1.1 V)
Farnell	9801472	BAT48	ST	Small Signal Schottky Diode (40 V, 350 mA, 0.75 V)
Farnell	1861479	1N746A	Multicomp	Zener Single Diode, 3.3 V, 500 mW, DO-35 (DO-204AH)
farnell	1861480	1N747A	Multicomp	Zener Single Diode, 3.6 V, 500 mW, DO-204AH
Farnell	1861484	1N751A	Multicomp	Zener Single Diode, 5.1 V, 500 mW, DO-35 (DO-204AH)
<b>MOSFET Drivers</b>				
Farnell	8638837	IR2110PBF	Infineon	High Side and Low Side MOSFET Driver (10 V - 20V, 2.5 A Out, 94ns, DIP-14)
Farnell	1216117	EL7104CNZ	Renesas	Low Side MOSFET Driver (4.5V to 16V Supply, 4A Out, 18ns, DIP-8)
<b>IC Sockets</b>				
Farnell	2839825	110-87-314-41-001101	PRECI DIP	14 Contacts DIP Socket (2.54mm)
Farnell	1103831	2227MC-08-03-F1	Multicomp	8 Contacts DIP Socket (2.54mm)
<b>Resistors</b>				
Farnell	9341145	MF25 10R	Multicomp	Through Hole Resistor (10 $\Omega$ , 250 mW, $\pm$ 1%, 250 V)
Farnell	9341099	MF25 100R	Multicomp	Through Hole Resistor (100 $\Omega$ , 250 mW, $\pm$ 1%, 250 V)
Farnell	9341471	MF25 200R	Multicomp	Through Hole Resistor (200 $\Omega$ , 250 mW, $\pm$ 1%, 250 V)
Farnell	9341102	MF25 1K	Multicomp	Through Hole Resistor (1k $\Omega$ , 250 mW, $\pm$ 1%, 250 V)
Farnell	9341480	MF25 2K	Multicomp	Through Hole Resistor, 2 kohm, MF25, 250 mW, $\pm$ 1%, Axial Leaded, 250 V
Farnell	9341951	MF25 4K7	Multicomp	Through Hole Resistor, 4.7 kohm, MF25, 250 mW, $\pm$ 1%, Axial Leaded, 250 V
Farnell	9341110	MF25 10K	Multicomp	Through Hole Resistor, 10 kohm, MF25, 250 mW, $\pm$ 1%, Axial Leaded, 250 V
Farnell	9341498	MF25 20K	Multicomp	Through Hole Resistor, 20 kohm, MF25, 250 mW, $\pm$ 1%, Axial Leaded, 250 V
Farnell	9341129	MF25 100K	Multicomp	Through Hole Resistor, 100 kohm, MF25, 250 mW, $\pm$ 1%, Axial Leaded, 250 V
Farnell	9354565	MF25 100K	BOURNS	Trimpot, Single Turn, Cermet, Top Finger Adjust, 10 kohm, Through Hole, 1 Turns
<b>Film Capacitors (High Voltage)</b>				
Farnell	1890211	FKP1T011004C00KSSD	Wima	Film Capacitor (1 nF, FKP1, 650 Vac, 1.6 kVdc)
Farnell	1890213	FKP1T013305B00KSSD	Wima	Film Capacitor (3.3 nF, FKP1, 650 Vac, 1.6 kVdc)
Conrad	450459-89	MKP1T014703F00KSSD-1	Wima	Film Capacitor (4,7nF, MKP1, 1,6kV)
Farnell	1890228	FKP1U022206F00KSSD	Wima	Film Capacitor (22 nF, FKP1, 700 Vac, 2 kVdc)
Farnell	1890218	FKP1T024707C00KSSD	Wima	Film Capacitor (47 nF, FKP1, 650 Vac, 1.6 kVdc)
Farnell	1890254	MKP1T026806A00JYSD	Wima	Film Capacitor (68 nF, MKP1, 650 Vac, 1.6 kVdc)
Conrad	450579-89	MKP1T014703F00KSSD-1	Wima	Film Capacitor (150nF, MKP1, 1,6kV)
Conrad	450233-89	MKP1T014703F00KSSD-1	Wima	Film Capacitor (1uF, MKP1, 1,6kV)
<b>Film Capacitors (Low Voltage)</b>				
Farnell	9752897	B32529C0102K000	Epcos	Plastic Film Capacitor (1 nF, 63V)
Farnell	9750983	B32529C1104K000	Epcos	Plastic Film Capacitor (100 nF, 100V)
Farnell	1614468	168105J50G-F	Mallory	Plastic Film Capacitor (1 uF, 50V)
<b>Electrolytic Capacitors</b>				
Farnell	9451480	MCGPR63V106M5X11	Multicomp	Electrolytic Capacitor (10uF, 63V)
Farnell	1281855	100YXM22MEFC8X11.5	Rubycon	Electrolytic Capacitor (22uF, 100V)
Farnell	1848475	EEUFCLJ221S	Panasonic	Electrolytic Capacitor (220uF, 63V)
Farnell	1144643	100YXF220MEFC16X25	Rubycon	Electrolytic Capacitor (220uF, 100V)
Farnell	9452109	MCRH63V477M13X26	Multicomp	Electrolytic Capacitor (470uF, 63V)
Farnell	9693165	ECA2AHG471	Panasonic	Electrolytic Capacitor (470uF, 100V)
Farnell	1219471	EEUFM1E102	Panasonic	Electrolytic Capacitor (1000 uF, 25V)
Farnell	1144624	25YXF1000MEFC12.5X20	Rubycon	Electrolytic Capacitor (1000uF, 25 V)
				Electrolytic Capacitor(200uF, 200V)
<b>Ceramic Capacitors</b>				
Farnell	1457699	C322C104K5R5TA	Kemet	Ceramic Capacitor (100nF, 50V)
Farnell	2112907	C320C154K5R5TA	Kemet	Ceramic Capacitor (150nF, 50V)
<b>Current Sensors</b>				
Farnell	1617405	LA 55-P	LEM	LEM LA 55-P (50A, 12 to 15 V supply, 0.9%)

LED, Indicators			
Farnell	1581138 MCL053GD	Multicomp	LED (5mm, Green, 20mA, 570 nm)
Farnell	1581137 MCL053MD	Multicomp	LED (5mm, Red, 20mA, 625 nm)
Litz Wires for Wireless Coils			
Huibers	Quotation	Pack Feindrähte	Rupalit HF Litze V155 140 x 0,10mm + 1x52
Huibers	Quotation	Pack Feindrähte	Rupalit HF Litze V155 105 x 0,10mm + 1x52
Le Guipage Mod	Quotation	Le Guipage Moderne	Litz Wire 100X0.100 (CUSF1-2N)
Litz Wires for Transformers and Inductors			
Conrad	604993-89 CLI 200/90	Block	Enamel-Coated Copper Wire, 2.52 A (90x 0.1 mm)
Conrad	605014-89 CLI 200/120	Block	Enamel-Coated Copper Wire, 3.36 A (120x 0.1 mm)
Multipurpose Wires			
Farnell	2290841 3053 RD005	AlphaWire	Hook Up Wire (AWG 20, 0.5mm <sup>2</sup> , Stranded, 300V, Red)
Farnell	2290845 3053 BK005	AlphaWire	Hook Up Wire (AWG 20, 0.5mm <sup>2</sup> , Stranded, 300V, Black)
Farnell	2290843 3053 BL005	AlphaWire	Hook Up Wire (AWG 20, 0.5mm <sup>2</sup> , Stranded, 300V, Blue)
Farnell	2290838 3053 YL005	AlphaWire	Hook Up Wire (AWG 20, 0.5mm <sup>2</sup> , Stranded, 300V, Yellow)
Farnell	2501428 PP001189	Multicomp	Wire, Tri Rated, PVC, Black, 14 AWG, 2.5 mm <sup>2</sup> , 328 ft, 100 m
Farnell	2501521 PP001273	Multicomp	Wire, Tri Rated, PVC, Red, 14 AWG, 2.5 mm <sup>2</sup> , 328 ft, 100 m
Farnell	2501439 PP001199	Multicomp	Wire, Tri Rated, PVC, Blue, 14 AWG, 2.5 mm <sup>2</sup> , 328 ft, 100 m
TO-220 Heat Sinks and Accessories			
Farnell	170074 TV40G	AAVID	TO-220 Heat Sink (9.9oC/W, 28 mm, 22 mm, 38 mm)
Farnell	179934 TV1500	AAVID	TO-220 Heat Sink (14.2oC/W, 30 mm, 12.7 mm, 30.2 mm)
Farnell	4621414 SK 145/37,5 STS-220	Fischer	TO-220 Heat Sink (12.2 oC/W, 29 mm, 37.5 mm, 12 mm)
Farnell	1213438 SW38-4	AAVID	TO-220 Heat Sink (10 oC/W, 34.5 mm, 38 mm, 12.5 mm)
Farnell	4621141 FK 237 SA 220 O	Fischer	TO-220 Heat Sink (21oC/W, Clip On, 14.5 mm, 12.7 mm, 19 mm)
Farnell	4293726 MK3306/TG	Multicomp	TO-220 Thermal Isolating kit (Silicone Rubber, 1.6 W/m.K, 6 kV, 0.23 mm)
Mechanical Parts, Connectors, and Accessories (Bolts, Nuts, Spacers, Standoff, etc...)			
RS	560-580 RS PRO	RS PRO	Machine Screw (M3, 6mm, Steel, Zinc Plated)
Farnell	1419292 M3 10 PSSTMC Z100	TR Fastenings	Machine Screw (M3, 10mm, Steel, Zinc Plated)
Farnell	1419990 M3 30 PRSTMC Z100	TR Fastenings	Machine Screw (M3, 30mm, Steel, Zinc Plated)
Farnell	1419447 M3- HFST-Z100-	TR Fastenings	Nut (M3, Steel, Zinc Plated)
Farnell	2480026 FAHSGFFM3-25-6	TR Fastenings	Standoff (Female-Female, 25mm, Nylon)
RS	125-6002 R30-3001002	Harwin	Standoff (Male-Female, M3, 10mm/5.5mm, Brass)
RS	280-8878 HTSB-M3-10-5-1	Richo	Standoff (Female-Female, M3, 10mm/5.5mm, Brass)
RS	176-8409	971050321 Wurth	Standoff (Male-Female, M3, 5mm/5.5mm, Steel)
Farnell	1698971 25.403.1	Multicomp	Banana Test Connector (4mm,30 A, 30 V, Red)
Farnell	1698972 25.403.2	Multicomp	Banana Test Connector (4mm,30 A, 30 V, Black)
Farnell	1698973 25.403.5	Multicomp	Banana Test Connector (4mm,30 A, 30 V, Blue)
Farnell	1698974 25.403.3	Multicomp	Banana Test Connector (4mm,30 A, 30 V, Yellow)
Farnell	1698975 25.403.4	Multicomp	Banana Test Connector (4mm,30 A, 30 V, Green)
Farnell	8282200	934097100 Hirschmann	Banana Test Connector (4mm, 24A, 1 kV, Black, Safe)
Farnell	8282218	934097101 Hirschmann	Banana Test Connector (4mm, 24A, 1 kV, Red, Safe)
Farnell	3041529	1715721 Phoenix Contact	Wire-To-Board Terminal Block (Screw, 5.08 mm, 2 Ways, 26-14 AWG, 2.5mm <sup>2</sup> )
Farnell	3041530	1715734 Phoenix Contact	Wire-To-Board Terminal Block (Screw, 5.08 mm, 3 Ways, 26-14 AWG, 2.5mm <sup>2</sup> )
Farnell	3882100 CTB9350/3A	Camdenboss	Terminal Block, Header, 3 Ways
Farnell	3705201	1757271 Phoenix Contact	Terminal Block, Header, 5 Ways
Farnell	3881866 CTB9200/3A	Camdenboss	Pluggable Terminal Block, 3 Ways
Farnell	3705389	1757048 Phoenix Contact	Pluggable Terminal Block, 5 Ways
Farnell	1248124 1-826629-6	AMP-TE	Pin Header, Straight, 16 Contacts (2.54 mm, 1 Row)
Farnell	1593469 22125-20SG-85	Multicomp	PCB Receptable, Board-to-Board (2.54mm, 20 Contacts)
Microcontroller and accessoires			
Farnell	2500224 NUCLEO-F303K8	ST	Development Board, STM32F303K8 MCU
Farnell	2503746 BX-4112N	Proskit	Breadboard 840 points
Farnell	1172146 RE200-HP	Roth Elektronik	Perfboard, 1.5 mm, 100 mm X 160 mm, 2.54 mm pitch
Magnetic Parts (Cores, Coil Forms and Clips) (to build inductors and transformers)			
Farnell	1190588 B66421G0000X187	Epcos	EFD25 Ferrite Core , N87 Material
Farnell	1190590 B66422B2000X000	Epcos	EFD25 Clip
Farnell	1190589 B66422W1010D001	Epcos	EFD25 Coil former
Farnell	1190591 B66423G0000X187	Epcos	EFD30 Ferrite Core, N87 Material
Farnell	1190594 B66424B2000X000	Epcos	EFD30 Clip
Farnell	1190592 B66424W1012D001	Epcos	EFD30 Coil former
Farnell	1781878 B66361G0000X187	Epcos	ETD34 Ferrite Core, N87 Material
Farnell	1781884 B66362A2000X000	Epcos	ETD34 Clip

RS	213-3922 B66362W1014T001	Epcos	ETD34 Coil Former H
RS	647-9402 B66362X1014T001	Epcos	ETD34 Coil Former V
Farnell	2355028 B66363G0000X187	Epcos	ETD39 Ferrite Core, N87 Material
Farnell	105772 B66364A2000X000	Epcos	ETD39 Clip
Farnell	2673493 B66364B1016T001	Epcos	ETD39 Coil former
Farnell	2355030 B66365G0000X187	Epcos	ETD44 Ferrite Core, N87 Material
RS	647-9452 B66366A2000X000	Epcos	ETD44 Clip
Farnell	2355025 B66366B1018T001	Epcos	ETD44 Coil Former
Farnell	2355032 B66367G0000X187	Epcos	ETD49 Ferrite Core, N87 Material
Farnell	105778 CLI-ETD49	Ferroxcube	ETD49 Clip
RS	653-1207 B66368B1020T001	Epcos	ETD49 Coil Former
Farnell	4016086 B66395G1000X187	Epcos	ETD54 Ferrite Core, N87 Material
Farnell	1422754 B66396A2000X000	Epcos	ETD54 Clip
Farnell	2355034 B66395G0000X187	Epcos	ETD54 Coil former