

# SkyWave DX150 (C) - PCB Component/Source List

Quantity	Designator	Notes	Description	Manufacturer Number	Source	Source Part Number	Web Site
24	N/A	RF IN, RF OUT	Cable, Coaxial, RG174A/U Type, 52-Ohm	RG174A/U (Belden)	RF Parts	RG174A/U	<a href="http://www.rfparts.com">www.rfparts.com</a>
7	C7, C11, C13, C15, C17, C18, C24		Capacitor, 0.01uF, 100V, 20%, Z5U, Radial (LS=0.197")	D103M29Z5UH6UJ5R (Vishay)	Mouser Electronics	594-D103M29Z5UH6UJ5R	<a href="http://www.mouser.com">www.mouser.com</a>
3	C6, C10, C14		Capacitor, 0.1uF, 50V, 10%, X7R, Radial (LS=0.197")	K104K15X7RF5UH5 (Vishay)	Mouser Electronics	594-K104K15X7RF5UH5	<a href="http://www.mouser.com">www.mouser.com</a>
1	C12		Capacitor, 1000pF, 500V, 10%, X7R, Radial (LS=0.197")	H102K25X7RL63J5R (Vishay)	Mouser Electronics	594-H102K25X7RL63J5R	<a href="http://www.mouser.com">www.mouser.com</a>
1	C9		Capacitor, 100uF, 25V, 20%, 1K Hours, 105C, 5x11mm, Radial (LS=0.079")	UVY1E101MDD (Nichicon)	Mouser Electronics	647-UVY1E101MDD	<a href="http://www.mouser.com">www.mouser.com</a>
3	C1, C2, C5		Capacitor, 10uF, 25V, 20%, Radial (LS=0.079")	UVR1E100MDD1TD (Nichicon)	Mouser Electronics	647-UVR1E100MDD1TD	<a href="http://www.mouser.com">www.mouser.com</a>
1	C8		Capacitor, 1uF, 50V, 20%, Radial (LS=0.079")	ESK105M050AC3AA (Kemet)	Mouser Electronics	80-ESK105M050AC3AA	<a href="http://www.mouser.com">www.mouser.com</a>
3	C16, C23, C25		Capacitor, Dipped Mica, 330pF, 1000V, 5%, Radial (LS=0.232")	CDV16FF331JO3F (Cornell-Dubilier)	Mouser Electronics	598-CDV16FF331JO3F	<a href="http://www.mouser.com">www.mouser.com</a>
2	C3, C22		Capacitor, Dipped Mica, 47pF, 500V, 5%, Radial (LS=0.232")	CD15ED470JO3F (Cornell-Dubilier)	Mouser Electronics	598-CD15ED470JO3F	<a href="http://www.mouser.com">www.mouser.com</a>
1	C21		Capacitor, Dipped Mica, 560pF, 500V, 5%, Radial (LS=0.344")	CD19FD561JO3F (Cornell-Dubilier)	Mouser Electronics	598-CD19FD561JO3F	<a href="http://www.mouser.com">www.mouser.com</a>
2	D1, D2		Diode, High Speed Signal, 1N914, DO35, Axial	1N914 (Vishay)	Mouser Electronics	78-1N914	<a href="http://www.mouser.com">www.mouser.com</a>
1	F1		Fuse Holder, ATC Type, TH	3522-2 (Keystone Electronics)	Mouser Electronics	534-3522-2	<a href="http://www.mouser.com">www.mouser.com</a>

# SkyWave DX150 (C) - PCB Component/Source List

Quantity	Designator	Notes	Description	Manufacturer Number	Source	Source Part Number	Web Site
1	F1		Fuse, ATC, 15A	BK/ATC-15 (Cooper-Bussman)	Mouser Electronics	504-ATC-15	<a href="http://www.mouser.com">www.mouser.com</a>
2	L2, L3		Inductor, RF Choke, 500-Ohms@30MHz, Wound Bead, Axial	06H-751 (Fastron)	Mouser Electronics	434-6H-751	<a href="http://www.mouser.com">www.mouser.com</a>
3	INSUL1, INSUL2, INSUL3	Q1, Q4, Q5	Insulator, Phase Change, TO-220	CD-02-05-220 (Wakefield Engineering)	Mouser Electronics	567-CD-02-05-220	<a href="http://www.mouser.com">www.mouser.com</a>
1	N/A		PCB, SkyWave DX150 Revision-C	SkyWave DX150 Revision-C	AllPCB		<a href="http://www.allpcb.com">www.allpcb.com</a>
1	VR1		Potentiometer, 1K, 0.1W, Vertical Adjust, TH	PT6KV-102A2020 (Piher)	Mouser Electronics	531-PT6KV-1K	<a href="http://www.mouser.com">www.mouser.com</a>
1	U1		Regulator, Voltage, 5V, 1A, TO-220	UA7805CKCT (Texas Instruments)	Mouser Electronics	595-UA7805CKCT	<a href="http://www.mouser.com">www.mouser.com</a>
1	RLY1		Relay, DPDT, 5V, 8A, DIP	G2RL-2-DC5 (Omron)	Mouser Electronics	653-G2RL-2-DC5	<a href="http://www.mouser.com">www.mouser.com</a>
1	R2		Resistor, 1.2K, 0.25W, 5%, Axial	291-1.2K-RC (Xicon)	Mouser Electronics	291-1.2K-RC	<a href="http://www.mouser.com">www.mouser.com</a>
1	R5		Resistor, 100, 0.25W, 5%, Axial	291-100-RC (Xicon)	Mouser Electronics	291-100-RC	<a href="http://www.mouser.com">www.mouser.com</a>
1	R3		Resistor, 100K, 0.25W, 5%, Axial	291-100K-RC (Xicon)	Mouser Electronics	291-100K-RC	<a href="http://www.mouser.com">www.mouser.com</a>
2	R4, R6		Resistor, 10K, 0.25W, 5%, Axial	291-10K-RC (Xicon)	Mouser Electronics	291-10K-RC	<a href="http://www.mouser.com">www.mouser.com</a>
1	R11		Resistor, 3.3K, 0.25W, 5%, Axial	291-3.3K-RC (Xicon)	Mouser Electronics	291-3.3K-RC	<a href="http://www.mouser.com">www.mouser.com</a>
2	R1, R13		Resistor, 330, 0.25W, 5%, Axial	291-330-RC (Xicon)	Mouser Electronics	291-330-RC	<a href="http://www.mouser.com">www.mouser.com</a>

# SkyWave DX150 (C) - PCB Component/Source List

Quantity	Designator	Notes	Description	Manufacturer Number	Source	Source Part Number	Web Site
1	R10		Resistor, 47K, 0.25W, 5%, Axial	291-47K-RC (Xicon)	Mouser Electronics	291-47K-RC	<a href="http://www.mouser.com">www.mouser.com</a>
2	R7, R8		Resistor, Metal Oxide, 150, 2W, 5%, Axial	282-150-RC (Xicon)	Mouser Electronics	282-150-RC	<a href="http://www.mouser.com">www.mouser.com</a>
4	N/A	U1, Q1, Q4, Q5 to Heat Sink.	Screw, Machine, Philips Pan Head, #4-40, 1/4", Stainless Steel	Screw, Machine, Philips Pan Head, 4-40, 1/4", Stainless Steel	Albany County Fastners	470036	<a href="http://www.albanycountyfasteners.com">www.albanycountyfasteners.com</a>
4	N/A	PCB to Heat Sink.	Screw, Machine, Philips Pan Head, #4-40, 5/16", Stainless Steel	Screw, Machine, Philips Pan Head, 4-40, 5/16", Stainless Steel	Albany County Fastners	470046	<a href="http://www.albanycountyfasteners.com">www.albanycountyfasteners.com</a>
4	SPACER1, SPACER2, SPACER3, SPACER4		Spacer, Round, 0.250"D, 0.125"ID, 0.100" Thick	0.1" SPACER (Communication Concepts)	Communication Concepts	0.1" SPACER	<a href="http://www.communication-concepts.com">www.communication-concepts.com</a>
1	L1		Toroid, 0.825"OD, 0.520"ID, 0.250"W, #43 Material	FT-82-43 (Amidon Associates)	Amidon Associates	FT-82-43	<a href="http://www.amidoncorp.com/">www.amidoncorp.com/</a>
1	T1		Transformer, RF Input, #43 Material	RF400-0-43 (Communication Concepts)	Communication Concepts	RF400-0-43	<a href="http://www.communication-concepts.com">www.communication-concepts.com</a>
1	T2		Transformer, RF Output, #43 Material	RF1000-0-43 (Communication Concepts)	Communication Concepts	RF1000-0-43	<a href="http://www.communication-concepts.com">www.communication-concepts.com</a>
1	Q3		Transistor, FET, N-Channel, 2N7000, TO-92	2N7000 (Fairchild Semiconductor)	Mouser Electronics	512-2N7000	<a href="http://www.mouser.com">www.mouser.com</a>
2	Q4, Q5		Transistor, FET, N-Channel, Switching, 100V, 12.8A, 65W, TO-220	FQP13N10 (Fairchild)	Mouser Electronics	512-FQP13N10	<a href="http://www.mouser.com">www.mouser.com</a>

## SkyWave DX150 (C) - PCB Component/Source List

Quantity	Designator	Notes	Description	Manufacturer Number	Source	Source Part Number	Web Site
1	Q1		Transistor, FET, P-Channel, SUP70101EL, 100V, 120A, RDS-ON=0.01 Ohms@10V, TO-220	SUP70101EL-GE3 (Vishay)	Mouser Electronics	78-SUP70101EL-GE3	<a href="http://www.mouser.com">www.mouser.com</a>
1	Q2		Transistor, FET, P-Channel, TP0606, TO-92	TP0606N3-G (Microchip Technology)	Mouser Electronics	689-TP0606N3-G	<a href="http://www.mouser.com">www.mouser.com</a>
4	D4, D5, D6, D7		TVS, Uni-Directional, Stand-Off=15V, Vbr=16.7V, Clamp=23.6V, 10%, 50pF, DO-15	SAC15 (Littelfuse)	Mouser Electronics	576-SAC15	<a href="http://www.mouser.com">www.mouser.com</a>
3	WASHER1, WASHER2, WASHER3	Q1, Q4, Q5	Washer, Shoulder, Black Plastic Insulating, TO-220	3049 (Keystone Electronics)	Mouser Electronics	534-3049	<a href="http://www.mouser.com">www.mouser.com</a>
14	L1	L1	Wire, #16, Teflon, Red, Stranded	Wire, #16, Teflon, Red, Stranded	PowerWerx		<a href="http://www.powerwerx.com">www.powerwerx.com</a>
15	L4	Inductor, Air, 12 Turns, #18 Magnet, 0.312" Diameter, Close Wound	Wire, #18, Copper Magnet, Red, Solid	Wire, #18, Copper Magnet, Red, Solid	PowerWerx		<a href="http://www.powerwerx.com">www.powerwerx.com</a>
18	N/A	T1=6", T2=12"	Wire, #20, Teflon, Orange, Stranded	Wire, #20, Teflon, Orange, Stranded	PowerWerx		<a href="http://www.powerwerx.com">www.powerwerx.com</a>
24	N/A	LED1, LED2	Wire, #22, Teflon, Blue, Stranded	Wire, #22, Teflon, Blue, Stranded	PowerWerx		<a href="http://www.powerwerx.com">www.powerwerx.com</a>
24	N/A	SW1	Wire, #22, Teflon, Green, Stranded	Wire, #22, Teflon, Green, Stranded	PowerWerx		<a href="http://www.powerwerx.com">www.powerwerx.com</a>
24	N/A	SW2	Wire, #22, Teflon, Purple, Stranded	Wire, #22, Teflon, Purple, Stranded	PowerWerx		<a href="http://www.powerwerx.com">www.powerwerx.com</a>

# SkyWave DX150 (C) - PCB Component/Source List

Quantity	Designator	Notes	Description	Manufacturer Number	Source	Source Part Number	Web Site
24	N/A	LED1, LED2	Wire, #22, Teflon, Yellow, Stranded	Wire, #22, Teflon, Yellow, Stranded	PowerWerx		<a href="http://www.powerwerx.com">www.powerwerx.com</a>
24	N/A	Power Lead.	Wire, Zip Cord, #12, Red/Black	Wire-RB-12-25 (Powerwerx)	PowerWerx	Wire-RB-12-25	<a href="http://www.powerwerx.com">www.powerwerx.com</a>