Amplitude Modulated 40 KHz CaveTransceiver and RDF DesignPeter Robertson VSA 1998

rd	Comp No	Description	Supplier	odified Parts Built DJS Suppliers	2007 DS	Jaycar	Jaycar	Jaycar	Altronics	Altronics
i u	Comp No	Description	ouppilei	Part No.	Price	Part No.	Price	Notes	Part No.	Price
	IC1	TDA2003 (OLDLM383T)	RADIO PARTS	38210150	\$4.95	Fait NO.	FILLE	Notes	Fart NO.	FILLE
	IC1 IC2	TDA2003 (OLDLM383T)	RADIO PARTS	38210150	\$4.95					
									7 0040	
	IC3	CA3140E	RADIO PARTS	38170030	\$2.72				Z-2010	\$2
	IC4	CA3140E	RADIO PARTS	38170030	\$2.72				Z-2010	\$2
	IC5	CA3140E	RADIO PARTS	38170030	\$2.72				Z-2010	\$2
	IC7	LM78L05ACZ	DICK SMITH	Z6108		ZV-1539	\$1.00			
	TS1	2N5485 FET				ZT-2266	\$1.30			
	TS2	BC549	DICK SMITH	Z1319		ZT-2156	\$0.26			
	D1	1N4148	DICK SMITH	ZI320		ZR-1100	\$0.32	5 Pack		
	D2	1N4148	DICK SMITH	Z1320		ZR-1100	\$0.32	5 Pack		
	R1	2K2	DICK SWITT	21320		21(-1100	φ0.32	JFack		-
										_
	R2	100 (180R)								_
	R3	1K2 (2K2)								
	R4	4K7								
	R5	100 (180R)								
	R6	5K1								
	R7	39K								
	R8	5K TRIM POT set to 1K24	DICK SMITH	R1769		RT-4358	\$0.75			
	R9	500R TRIM POT set to 410	DICK SMITH	R1763		RT-4352	\$0.75			_
	R10	5K1								
	R11	39K								
	R12	500R TRIM POT set to 418	DICK SMITH	R1763		RT-4352	\$0.75			
	R13	5K1	DICK SMITH	R7512						
	R14	39K								
	R15	500R TRIM POT set to 400	DICK SMITH	R1763		RT-4352	\$0.75		1	+
								Owe - II		
	R16	100K GAIN POT	DICK SMITH	R7512		RP-8518	\$2.50	Small	+	+
	R17	10R								_
	R18	220R								
	R19	220R								
	R20	10R								1
	R21	220R				Ì			1	+
	R22	2K2								-
		10K trimmer (not used)		-						-
	R23									_
	R24	15K								_
	C1	473 (2x 0.039 or 1x.082 uF See Note 2)				RG-5105	\$0.18			
	C2	473 Green Caps				RG-5105	\$0.18			
	C3	102 (0.001 to 0.0047 uF See Note 3)				RG-5010	\$0.18	x5		
	C4	22uF 25V (47uF 16V Electrolytic Caps)				RE-6090	\$0.25			1
	C5	10uF 25V (22uF 16V)				RE-6070	\$0.25			-
	C6	10uF 25V (47uF 16V)				RE-6070	\$0.25			-
										_
	C7	472 (0.0047uF Green Caps)				RG-5047	\$0.18			_
	C8	102 (0.001uF Green Caps)				RG-5010	\$0.18			_
	C9	102 (0.001uF Green Caps)				RG-5010	\$0.18			
	C10	10uF 25V (0.47 uF 16V)				RE-6090	\$0.25			
	C11	47uF 16V				RE-6100	\$0.28			
	C12	102 (0.001uF Green Caps)				RG-5010	\$0.18			-
	C13	102 (0.001uF Green Caps)				RG-5010	\$0.18			-
	C14						\$0.18			-
		102 (0.001uF Green Caps)				RG-5010				_
	C15	102 (0.001uF Green Caps)				RG-5010	\$0.18			_
	C16	103 (0.01uF Green Caps)				RG-5065	\$0.18			
	C17	1000uF 16V (35V)				RE-6236	\$1.95			
	C18	1000uF 16V				RE-6220	\$0.70			
	C19	100uF 16V (10uF 16V)				RE-6140	\$0.25			
	C20	224 (0.22uF Green Caps)				RG-5145	\$0.18			-
										-
	C21	224 (0.22uF Green Caps)				RG-5145	\$0.18			
	C22	0.22uF 16V (50V) Try Polyester Yellow				RM-7145	\$0.35	<u> </u>	ł	_
	C23	1000uF 16V				RE-6220	\$0.70			_
	C24	47uF 25V (16V)				RE-6100	\$0.28		<u> </u>	
_	C25	47uF 16V				RE-6100	\$0.28			
	C26	47uF 16V (10uF 16V)				RE-6100	\$0.28		Г	
	PCB 1	Printed Circuit Board See Note 4	VSA		\$15.00	-			1	1
	T 0	Output Transformer See Note 5	Newtek		÷.0.00				1	+
			INCINICI	+		ł	+		+	+
							_		<u> </u>	_
	Note 1	Requires Heatsink 25x10 X 50mm	ALCAN						ļ	_
	Note 2	Adjust value to tune loop for max								
		output on Transmit. Use Caps in								1
		parallel to handle the output current		1						
		on Transmit. Or overheating will					-		1	1
		destroy them							1	+
				+		l			ł	+
	Note C	A divertice has to be a f								_
	Note 3	Adjust value to tune for max					_		<u> </u>	_
		received signal across the capacitor								_
	Note 4	PCB designed and available from								
		Peter Robertson PO Box 150					-		1	1
				+		l			ł	+
		Hawthorn 3122 Australia					-			
							_		<u> </u>	_
	Note 5	Ferrite pot core Type PC-2213-77	Newtek						ļ	_
		Made by AMIDON 21.6 Dia x 9.4 mm	Electronics						L	
		Ferrite material 77 Permeability 2000	Wollongong							
							-		1	1
		Primary winding 5 Turns 0.5mm	DICK SMITH	W3124		WW-4016	¢7.05	E7m		+
			DICK SMITH	W3124 W3124	ļ	WW-4016 WW-4016	\$7.65 \$7.65	57m 57m		+
		Secondary1 O/P to loop 8 Turns0.5mm								

Please Note The parts listed as Dick Smith are given only as a reference to identify in their Catalogue. They can be purchased at many orher outlets and Trade Houses

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