



MIFARE INTERFACE FOR PTV 2
823100B

Bill Of Materials April 10, 2002 10:00

Item	Quantity	Reference Part	Footprint	Discription	Package	Tol.	Power	Voltage	Current	Ordering Code	Manufacturer	Distributor	Datasheet
1	1	BEAD1	BDS_3_3_4_6_R	Ferrite bead									
2	1	B1	CR2032PCB_VARTA	Battery, PCB mounting, 3 pin horizontal									
3	9	C1	CR_0805	Ceramic chip capacitor, SMD	0805	10%		3V		4330 030 3642	FERROXCUBE or Philips		
		C2	CR_0805	Ceramic chip capacitor, SMD	0805	10%		50V		CR2032 PCB3	Varia		
		C3	CR_0805	Ceramic chip capacitor, SMD	0805	10%		50V					
		C4	CR_0805	Ceramic chip capacitor, SMD	0805	10%		50V					
		C5	CR_0805	Ceramic chip capacitor, SMD	0805	10%		50V					
		C6	CR_0805	Ceramic chip capacitor, SMD	0805	10%		50V					
		C7	CR_0805	Ceramic chip capacitor, SMD	0805	10%		50V					
		C13	CR_0805	Ceramic chip capacitor, SMD	0805	10%		50V					
		C14	CR_0805	Ceramic chip capacitor, SMD	0805	10%		50V					
4	4	C8	TCR_7343_D	Tantalum cap.	D	20%		35V					
		C10	TCR_7343_D	Tantalum cap.	D	20%		35V					
		C11	TCR_7343_D	Tantalum cap.	D	20%		35V					
		C22	TCR_7343_D	Tantalum cap.	D	20%		35V					
5	3	C9	CR_0805	Ceramic chip capacitor, SMD	0805	10%		50V					
		C12	CR_0805	Ceramic chip capacitor, SMD	0805	10%		50V					
		C16	CR_0805	Ceramic chip capacitor, SMD	0805	10%		50V					
6	1	C15	CR_0805	Ceramic chip capacitor, SMD	0805	10%		50V					
7	1	C17	CR_0805	Ceramic chip capacitor, SMD	0805	10%		50V					
8	1	C18	CR_0805	Ceramic chip capacitor, SMD	0805	10%		50V					
9	4	C20	CR_0805	Ceramic chip capacitor, SMD	0805	10%		50V					
		C25	CR_0805	not inst.	0805								
		C26	CR_0805	not inst.	0805								
		C34	CR_0805	not inst.	0805								
10	1	C21	CR_0805	Ceramic chip capacitor, SMD	0805	10%		50V					
11	3	C19	CR_0805	Ceramic chip capacitor, SMD, NPO	0805	2%		50V					
		C23	CR_0805	Ceramic chip capacitor, SMD, NPO	0805	2%		50V					
		C35	CR_0805	Ceramic chip capacitor, SMD, NPO	0805	2%		50V					
12	1	C24	CR_0805	Ceramic chip capacitor, SMD	0805	10%		50V					
13	1	C27	TZBX4	Trimmer cap, SMD	0805					TZB4Z250AB10B00	Murata		
	or									TZBX4Z250BA110	Murata		
14	1	C28	CR_0805	Ceramic chip capacitor, SMD	0805	10%		50V					
15	1	C29	CR_0805	Ceramic chip capacitor, SMD	0805	10%		50V					
16	3	C30	CR_0805	Ceramic chip capacitor, SMD, NPO	0805	2%		50V					
		C31	CR_0805	Ceramic chip capacitor, SMD, NPO	0805	2%		50V					
		C36	CR_0805	Ceramic chip capacitor, SMD, NPO	0805	2%		50V					
17	1	C32	CR_0805	Ceramic chip capacitor, SMD	0805	10%		50V					
18	1	C33	CR_0805	Ceramic chip capacitor, SMD	0805	2%		50V					
19	1	D1	DIL_32_600	(Ordered and installed by Intermarketing Ltd)									
				Through hole socket, DIL-32, 600mils									
19,2	1				DIL-32								
20	1	D2	SOJRT_20_300	Quad D-flip-flop	SO-20W								
21	1	D3	SOJRT_14_150	Quad 2-input NAND	SO-14								
22	1	D4	SOJRT_16_150	Buzzer, raster 10mm, size 17.5mm x 17.5mm	SO-16								
23	1	H1	SMA_17_P10	See WALL 1.....WALL 8						SMA-17-P10	Sonitron		
24	36	JUO1	JUOTOS_2.5X5	See WALL 1.....WALL 8									
		JUO2	JUOTOS_2.5X5	See WALL 1.....WALL 8									
		JUO3	JUOTOS_2.5X5	See WALL 1.....WALL 8									
		JUO4	JUOTOS_2.5X5	See WALL 1.....WALL 8									
		JUO5	JUOTOS_2.5X5	See WALL 1.....WALL 8									

[illegible]

R11	150R	RR_0805	Chip resistor, metal film	0805	10%	0.125W	3314G-1-102 3314G-1-202
R12	150R	RR_0805	Chip resistor, metal film	0805	10%	0.125W	
R13	150R	RR_0805	Chip resistor, metal film	0805	10%	0.125W	
R14	150R	RR_0805	Chip resistor, metal film	0805	10%	0.125W	
R15	10k	RR_0805	Chip resistor, metal film	0805	10%	0.125W	
R18	10k	RR_0805	Chip resistor, metal film	0805	10%	0.125W	
R24	10k	RR_0805	Chip resistor, metal film	0805	10%	0.125W	
R26	39R	RR_1206	Chip resistor, metal film	1206	10%	0.25W	
R16	39R	RR_1206	Chip resistor, metal film	1206	10%	0.25W	
R17	4k7	RR_0805	Chip resistor, metal film	0805	10%	0.125W	
R21	4k7	RR_0805	Chip resistor, metal film	0805	10%	0.125W	1812WBT-3 1812WBT-3
R25	4k7	RR_0805	Chip resistor, metal film	0805	10%	0.125W	
R20	220k	RR_0805	Chip resistor, metal film	0805	10%	0.125W	
R19	220k	RR_0805	Chip resistor, metal film	0805	10%	0.125W	
R22	470k	RR_0805	Chip resistor, metal film	0805	10%	0.125W	
R23	330k	RR_0805	Chip resistor, metal film	0805	10%	0.125W	
R27	1k0	RR_1206	Chip resistor, metal film	1206	10%	0.25W	
R31	560R	RR_1206	Chip resistor, metal film	1206	10%	0.25W	
R28	560R	RR_1206	Chip resistor, metal film	1206	10%	0.25W	
R29	3314G-1-102	TRIM_3314G_BOURNS	Trimmer resistor, SMD	1206	10%	0.25W	
R30	2R2	RR_1206	Chip resistor, metal film	1206	10%	0.25W	Colcraft Colcraft
R32	3k3	RR_0805	Chip resistor, metal film	0805	10%	0.125W	
R33	22R	RR_0805	Chip resistor, metal film	0805	10%	0.125W	
R34	220R	RR_0805	Chip resistor, metal film	0805	10%	0.125W	
R35	4k3	RR_0805	Chip resistor, metal film	0805	10%	0.125W	
T1	1812WBT-3	1812SWT_COILCRAFT	SMD transformer (ordered by Intermarketing Ltd)	1812			
T2	1812WBT-3	1812SWT_COILCRAFT	SMD transformer (ordered by Intermarketing Ltd)	1812			
V1	BAS85	SOD80_R	Schottky diode	SOD-80		0.2A	
V2	BAS85	SOD80_R	Schottky diode	SOD-80		0.2A	
V3	BAS85	SOD80_R	Schottky diode	SOD-80		0.2A	
V4	BAS85	SOD80_R	Schottky diode	SOD-80		0.2A	(Intermarketing Ltd) FEC
V5	BAS85	SOD80_R	Schottky diode	SOD-80		0.2A	
V6	PMBT2222A	SOT23_R	NPN transistor	SOT-23			
V7	2N3553	TO39_1_PHILIPS	NPN transistor	TO-39			
VPAD7			Transistor pad for V7, h(max) = 3mm	TO-39 or TO-5			
HS7			Heatsink for V7				
X1	91601-320	BERG_91601_320	1 x 20 SMD socket	FCI			
X2	5268-02	5268_02	1 x 2 pin connector, angle	Samtec			
X4	5268-02	5268_02	1 x 2 pin connector, angle	Samtec			
X3	5268-03	5268_03	1 x 3 pin connector, angle	Molex			
P.C.B.			Printed Circuit Board	Molex			

Component placement (823100B_KS.PDF)

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