

BILL OF MATERIALS

PRODUCT NAME SPC570-DISP								Rev	1.00										
								Quantity											
								Package		Manufacturer									
Description	Value	Tolerance	Rating	Specifcat	R.F.P.	Ord	Arr		Part Number	Cross Reference	Distributor	Order Code	UM	Qty	Designator	Notes			
SMD RESISTOR	0 Ohm				<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	0805					NR	11	R1, R2, R5, R7, R17, R25, R26, R55, R56, R57, R93	DO NOT POPULATE: R17,R25, R26, R57, R93			
SMD RESISTOR	0 Ohm				<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	0603					NR	35	R58, R59, R60, R61, R62, R63, R64, R65, R66, R67, R68, R69, R70, R71, R72, R73, R74, R75, R76, R77, R78, R79, R80, R81, R82, R83, R84, R85, R86, R87, R88, R89, R90, R91, R92	DO NOT POPULATE: R58, R59, R60, R61, R62, R67, R68, R69, R70, R71, R79, R80, R85, R86, R88, R89, R92			
SMD RESISTOR	10 Ohm	5%			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	0805					NR	3	R4, R14, R15				
SMD RESISTOR	120 Ohm	5%			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	0603					NR	1	R10				
SMD RESISTOR	220 Ohm	5%			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	0603					NR	2	R29, R30				
SMD RESISTOR	270 Ohm	5%			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	0603					NR	1	R31				
SMD RESISTOR	680 Ohm	5%			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	0603					NR	1	R38				
SMD RESISTOR	1K Ohm	5%			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	0805					NR	10	R16, R18, R22, R23, R37, R39, R45, R47, R48, R52				
SMD RESISTOR	1K Ohm	5%			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	0603					NR	1	R8				
SMD RESISTOR	1,1K Ohm	1%			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	0603					NR	1	R33				
SMD RESISTOR	2,2K Ohm	5%			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	0603					NR	2	R21, R46				
SMD RESISTOR	3,3K Ohm	5%			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	0603					NR	1	R36				
SMD RESISTOR	4,7K Ohm	5%			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	0805					NR	5	R19, R20, R24, R27, R28				
SMD RESISTOR	4,7K Ohm	5%			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	0603					NR	3	R9, R11, R12				
SMD RESISTOR	4,99K Ohm	1%			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	0603	VISHAY THIN FILM				NR	1	R32				
SMD RESISTOR	5K Ohm	1%			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	0603		PNM0603E5001BST5	FN	1857214	NR	1	R41				
SMD RESISTOR	10K Ohm	5%			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	0603					NR	5	R6, R35, R49, R50, R51				
SMD RESISTOR	12K Ohm	5%			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	0603					NR	1	R13				
SMD RESISTOR	100K Ohm	5%			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	0603					NR	4	R40, R42, R43, R44				
SMD RESISTOR	150K Ohm	5%			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	0603					NR	1	R34				
SMD RESISTOR	1M Ohm	5%			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	3386F	BOURNS				NR	1	R3	DO NOT POPULATE			
TRIMMER CERMET	10K Ohm	10%			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	0603	3386F-1-103LF		FN	9354557	NR	2	R53, R54				
SMD CERAMIC CAPACITOR	1pF/16V	10%	16V	X7R	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	0603					NR	1	C56				
SMD CERAMIC CAPACITOR	8pF/16V	10%	16V	X7R	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	0603					NR	2	C1, C2				
SMD CERAMIC CAPACITOR	18pF/16V	10%	16V	X7R	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	0603					NR	2	C27, C28				
SMD CERAMIC CAPACITOR	20pF/16V	10%	16V	X7R	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	0603					NR	1	C18				
SMD CERAMIC CAPACITOR	220pF/16V	10%	16V	X7R	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	0603					NR	1	C23				
SMD CERAMIC CAPACITOR	1nF/16V	10%	16V	X7R	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	0603					NR	7	C4, C8, C12, C14, C17, C22, C25	DO NOT POPULATE: C12, C14			
SMD CERAMIC CAPACITOR	4,7nF/16V	10%	16V	X7R	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	0603					NR	1	C52				
SMD CERAMIC CAPACITOR	10nF/16V	10%	16V	X7R	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	0603					NR	2	C21, C58				
SMD CERAMIC CAPACITOR	47nF/16V	10%	16V	X7R	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	0603					NR	1	C53				
SMD CERAMIC CAPACITOR	100nF/16V	10%	16V	X7R	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	0603					NR	31	C6, C7, C10, C13, C16, C20, C24, C26, C29, C31, C33, C35, C36, C37, C39, C40, C41, C42, C43, C44, C45, C46, C47, C48, C49, C50, C60, C61, C62, C63, C64				
SMD CERAMIC CAPACITOR	470nF/25V	10%	25V	X7R	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	0805					NR	1	C51				
SMD CERAMIC CAPACITOR	470nF/16V	10%	16V	X7R	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	0805					NR	1	C11				
SMD CERAMIC CAPACITOR	1uF/16V	10%	16V	X7R	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	0805					NR	1	C15				
SMD CERAMIC CAPACITOR	2,2uF/16V	10%	16V	X7R	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	0805	KEMET				NR	3	C3, C5, C9	DO NOT POPULATE: C3			
SMD CERAMIC CAPACITOR	3,3uF/16V	10%	16V	X7R	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	0805		C0805C335K4PACTU	FN	1572630	NR	1	C38				
SMD CERAMIC CAPACITOR	4,7uF/16V	10%	16V	X7R	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	0805					NR	4	C19, C32, C34, C59				
SMD CERAMIC CAPACITOR	10uF/16V	10%	16V	X7R	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	1206					NR	1	C57				
SMD CERAMIC CAPACITOR	10uF/16V	10%	16V	X7R	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	1210					NR	1	C30				
SMD CERAMIC CAPACITOR	10uF/25V	10%	25V	X7R	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	0805					NR	1	C55				
SMD CERAMIC CAPACITOR	22uF/16V	10%	16V	X7R	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	0603	TE CONNECTIVITY / RAYCHEM				NR	1	C54				
SMD FUSE 1A	1A/32V				<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	0603	MURATA	0603SFF100F/32-2	FN	1843791	NR	1	F1				
SMD FERRITE	220 Ohm	25%	2,2A		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	0603	WURTH ELEKTRONIK	BLM18KG221SN1D	FN	1781090	NR	1	FB1				
SMD FERRITE	60 Ohm	25%	0,5A		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	NR SERIES	TAIYO YUDEN	74279267	FN	1635683	NR	5	L1, L2, L3, L4, L5				
SMD INDUCTOR	22uH/1,9A	20%	1,9A		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	7B-12,000MAAJT	TXC	NR6045T220M	FN	1839621	NR	1	L6				
SMD CRYSTAL	12MHz				<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	NX5032GA	NDK	7B-12,000MAAJT	FN	1841963RL	NR	1	Y2				
SMD CRYSTAL	40MHz				<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	0805 LED		NX5032GA-40.000000MHZ-LN-CD-1	DK	644-1045-1-ND	NR	1	Y1				
SMD DIODE LED GREEN	GREEN			GREEN	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	0805 LED					NR	11	D2, D3, D4, D5, D6, D8, D9, D10, D13, D14, D15				
SMD DIODE LED RED	RED			RED	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	SOD-323	ON SEMICONDUCTOR				NR	1	D12				
SMD SWITCH DIODE	BAS20HT1G				<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	SMB	ST MICROELECTRONICS	BAS20HT1G	FN	1147599	NR	1	D1				
SMD DIODE SCHOTTKY	STPS2L40AF				<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	SMB	ST MICROELECTRONICS	STPS2L40AF	MO	511-STPS2L40AF	NR	1	D7	PROVIDED BY CUSTOMER			
SMD DIODE SCHOTTKY	STPS340UY				<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	SOT-666	ST MICROELECTRONICS	STPS340UY	MO	511-STPS340UY	NR	1	D11	PROVIDED BY CUSTOMER			
ESD PROTECTOR	USBLC6-2P6				<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	JUMPER A SALDARE - CHIUSO		USBLC6-2P6			NR	1	U8	PROVIDED BY CUSTOMER			
GOUTTE CONTACT - CLOSE					<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	SIP2					NR	11	J1, J3, J5, J7, J9, J11, J13, J15, JP12, JP13, JP15				

HEADER 2X1	p. 2,54mm		2 POLES	MALE	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	SIP3						NR	7	JP3, JP7, JP14, JP16, JP17, JP18, JP19	
HEADER 3X1	p. 2,54mm		3 POLES	MALE	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	SIP4						NR	5	JP2, JP6, JP8, JP10, JP11	
HEADER 4X1	p. 2,54mm		4 POLES	MALE	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	SIP5						NR	2	JP5, JP9	
HEADER 5X1	p. 2,54mm		5 POLES	MALE	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	SIP6						NR	2	JP1, JP4	
HEADER 6X1	p. 2,54mm		6 POLES	FEMALE	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	SIP8						NR	1	P6	
HEADER 8X1	p. 2,54mm		8 POLES	FEMALE	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	SIP10						NR	2	P5, P7	
HEADER 10X1	p. 2,54mm		10 POLES	FEMALE	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	HDR2X7						NR	1	P4	
HEADER 7X2	p. 2,54mm		14 POLES	MALE	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	IDC8	AMPHENOL					NR	1	P8	
POLARIZED HEADER 4X2	p. 2,54mm		8 POLES	MALE	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	MINI USB MOLEX		T82112AIS100CEU		FN	2215306	NR	2	P1, P2	
MINI USB CONNECTOR					<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	IDC14						NR	1	P3	
JTAG CONNECTOR	p. 2,54mm		14 POLES	MALE	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	IDC37X4						NR	2	X1, X4	
HEADER 37X4	p. 2,54mm		148 POLES	MALE	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	CON DC10A						NR	1	X3	
POWER JACK CONNECTOR					<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	TEST POINT						NR	1	X2	
TEST POINT					<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	SWITCH C.S. MFP211N						NR	23	TP1, TP2, TP3, TP4, TP5, TP6, TP7, TP8, TP9, TP10, TP11, TP12, TP13, TP14, TP15, TP16, TP17, TP18, TP19, TP20, TP21, TP22, TP23	DO NOT POPULATE: TP11
SLIDE SWITCH	MFP211N				<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	PULSANTE1						NR	1	S1	
TACT SWITCH	h=5,0mm				<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	SO-8	ON SEMICONDUCTOR					NR	4	S2, S3, S4, S5	
HIGH SPEED CAN TRANSCEIVER	AMIS30663CANG2G				<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	SO-8	NXP	AMIS30663CANG2G		MO	863-AMIS30663CANG2G	NR	1	U4	
LIN TRANSCEIVER	TJA1020T/N1,118				<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	SO-8	ST MICROELECTRONICS	TJA1020T/N1,118		FN	8804583RL	NR	1	U2	
MONOLITHIC BUS DRIVER WITH ISO 9141 INTERFACE	E-L9637D013TR				<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	LQFP-64	FTDI	E-L9637D013TR				NR	1	U3	PROVIDED BY CUSTOMER
USB/UART INTERFACE	FT2232HL-REEL				<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	SC-70	TEXAS INSTRUMENTS	FT2232HL-REEL		MO	895-FT2232HL	NR	1	U5	
TRANSCEIVER	SN74LVC1T45DCKR.				<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	HSOP-8	ST MICROELECTRONICS	SN74LVC1T45DCKR.		FN	2412371	NR	8	U6, U7, U9, U10, U11, U14, U15, U16	
2A BUCK REGULATOR FOR AUTOMOTIVE APPLICATION	A7985A				<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	SO-8	ST MICROELECTRONICS	A7985A				NR	1	U17	PROVIDED BY CUSTOMER
1K (x16) SERIAL MICROWIRE BUS EEPROM WITH BLOCK PROTECTION	M93S46-WMN6TP/S				<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	SOT-223	ST MICROELECTRONICS	M93S46-WMN6TP/S				NR	1	U12	PROVIDED BY CUSTOMER
LDO REGULATOR - 3,3V	LD1117S33TR				<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	SO-8	ST MICROELECTRONICS	LD1117S33TR				NR	1	U13	
P/N MOSFET	STS8C5H30L				<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	DKPAK	ST MICROELECTRONICS	STS8C5H30L				NR	2	U19, U20	PROVIDED BY CUSTOMER
LDO REGULATOR - 3,3V	LD1117DT33				<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	SOT-143	ST MICROELECTRONICS	LD1117DT33				NR	1	U18	PROVIDED BY CUSTOMER
OPEN DRAIN MICROPROCESSOR RESET	STM6315RBW13F				<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	TQFP64-EXPAD 6X6mm	ST MICROELECTRONICS	STM6315RBW13F		MO	511-STM6315RBW13F	NR	1	U21	
MICROCONTROLLERS - QFP64	SPC570S-64				<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	TQFP100_EXPOSED PAD	ST MICROELECTRONICS	SPC570S-64				NR	1	U64	PROVIDED BY CUSTOMER
MICROCONTROLLERS - QFP100	SPC570S-100				<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			SPC570S-100				NR	1	U100	DO NOT POPULATE
					<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>							NR			

FORMATION ABOUT MECHANICAL PARTS										HAMMOND							
FEET STICK ON	1421T5BK				<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			1421T5BK		FN	1876519	NR	4		
CONFIGURATION JUMPER	p. 2,54mm			FEMALE	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>							NR	17		PACKED IN A BAG
FORMATION ABOUT SPARE PARTS																	
					<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>							NR			
					<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>							NR			

Legend:
FN=Farnell, RS=RS Components, MO=Mouser, DK=Digikey, AR=Arrow, AX=AvNet Express, NW=Newark, OL=ON Line componets