

 <div> Project - Title HGC Sensor 136 Channels 6 inch Probe Card EDA Number EDA-03517-V2-0 Designer E. Sicking File EDA-03517-V2-0_pcb-mat.xls Date 20 February 2019 </div> <div> Rev. Drawn by JMW EDMS URL https://edms.cern.ch/item/EDA-03517-V2-0 </div>							
Ref	Qty	Scem	Description	Val&Device	Manufacturer	Part Number	Case
C1 C10	2		±10% 50V X7R SMD Multilayer Chip Ceramic Capacitor	100nF	GENERIC	CC0603_100NF_50V_10%_X7R	0603
C2	1		±0.25pF 50V C0G/NP0 SMD Multilayer Chip Ceramic Capacitor	1pF	GENERIC	CC0603_1PF_50V_0.25PF_NP0	0603
C3	1		±0.25pF 50V C0G/NP0 SMD Multilayer Chip Ceramic Capacitor	2.2pF	GENERIC	CC0603_2.2PF_50V_0.25PF_NP0	0603
C4	1		±0.25pF 50V C0G/NP0 SMD Multilayer Chip Ceramic Capacitor	4.7pF	GENERIC	CC0603_4.7PF_50V_0.25PF_NP0	0603
C5	1		±5% 50V C0G/NP0 SMD Multilayer Chip Ceramic Capacitor	10pF	GENERIC	CC0603_10PF_50V_5%_NP0	0603
C6	1		±5% 50V C0G/NP0 SMD Multilayer Chip Ceramic Capacitor	22pF	GENERIC	CC0603_22PF_50V_5%_NP0	0603
C7	1		±5% 50V C0G/NP0 SMD Multilayer Chip Ceramic Capacitor	47pF	GENERIC	CC0603_47PF_50V_5%_NP0	0603
C8	1		±5% 50V C0G/NP0 SMD Multilayer Chip Ceramic Capacitor	100pF	GENERIC	CC0603_100PF_50V_5%_NP0	0603
C9	1		±5% 50V C0G/NP0 SMD Multilayer Chip Ceramic Capacitor	220pF	GENERIC	CC0603_220PF_50V_5%_NP0	0603
J1 J4	2		12 Contacts, Pitch 2.54mm, Dual Row Through Mount Straight Header (Post Lead = 6.35mm, Tail Lead 3.05mm, Insulator 1.52mm)		SAMTEC	MTLW-106-07-L-D-250	
J2	1	09.46.11.180.6	Size 00, 50 Ohms Coaxial Elbow (90°) socket With Clearance Under The Body		LEMO	EPK.00.250.NTN	
J3	1		4 Contacts, Pitch 2.54mm, Single Row Through Mount Right Angle Socket (Lead Length 2.54mm)		SAMTEC	SSW-104-02-L-S-RA	
J5 J8, J9	3		32 Contacts, Pitch 2.54mm, Dual Row Through Mount Straight Header (Post Lead = 6.35mm, Tail Lead 3.05mm, Insulator 1.52mm)		SAMTEC	MTLW-116-07-L-D-250	
J6, J7 J10 > J12	5		22 Contacts, Pitch 2.54mm, Dual Row Through Mount Straight Header (Post Lead = 6.35mm, Tail Lead 3.05mm, Insulator 1.52mm)		SAMTEC	MTLW-111-07-L-D-250	
PP1 > PP135	135		Probe, Spring-Loaded Pin, 2A Continuous, 3A Peak, -55..125°C (Soldered Pin 3.81mm)		MILL-MAX	0985-1-15-20-71-14-11-0	
RS1 > RS135	135		1A (0.05R Max DC Resistance) Zero Ohm Jumper	0	GENERIC	R0603_OR_JUMPER	0603

Sensitive

IC1	1		I2C Digital Humidity 0 – 100% RH and Temperature -40°C to +125°C Sensor	SHT25	SENSIRION	SHT25	SON6
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Not Mounted

R1 > R4	4		±1% 0.1W ±100ppm/°C General Purpose Thick Film Chip Resistor	10k	GENERIC	R0603_10K_1%_0.1W_100PPM	0603
RB1 > RB135	135		±1% 0.125W ±100ppm/°C High Stability Metal Glaze Thick Film Chip Resistor	10M	VISHAY SFERNICE	CHP0603K1005FNT	0603

Dimensions: 220 x 264mm	Through Pins SMD pins on Top SMD pins on Bottom Total number of pins	427 297 0 724
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