

# Bill of Materials MCP9902 Remote Temp Sensor Eval Board

Document Number: 02-10347  
 Board Number: 04-10347  
 Part Number: ADM00615  
 Revision: 2  
 Engineer: Wayne Little  
 Drawn By: Wayne Little



Quantity	Designator	Description_	Manufacturer 1	Manufacturer Part Number 1	Supplier 1	Supplier Part Number 1
4	+3.3 PWR, +5V PWR, SMB_ACT, USB_ACT	DIO LED GREEN 2.2V 25mA 15mcd Clear SMD 0603	Kingbright	APT1608SGC	Digi-Key	754-1121-1-ND
1	+3.3V	CON TP LOOP Red TH	Keystone	5010	Digi-Key	5010K-ND
1	+5V	CON TP LOOP Orange TH	Keystone	5013	Digi-Key	5013K-ND
2	ALERT, THERM	CON TP LOOP White TH	Keystone	5012	Digi-Key	5012K-ND
1	C1	CAP CER 2200pF 50V 10% X7R SMD 0603	KEMET	C0603C222K5RACTU	Digi-Key	399-1085-1-ND
3	C2, C3, C6	CAP CER 0.1uF 16V 10% X7R SMD 0603	NIC Components	NMC0603X7R104K16TR	NIC Components	NMC0603X7R104K16TRPF
2	C4, C5	CAP CER 10uF 10V 10% X5R SMD 0805	Taiyo Yuden	LMK212BJ106KD-T	Digi-Key	587-1299-1-ND
1	C7	CAP CER 0.47uF 6.3V 10% X5R SMD 0603	Murata	GRM188R60J474KA01D	Digi-Key	490-1548-1-ND
1	D1	DIO TVSARR USBL C6-2SC6 5.25V SMD SOT-23-6	STMicroelectronics	USBL C6-2SC6	Digi-Key	497-5235-1-ND
1	FB1	FERRITE 2A 220R SMD 0805	Murata Electronics North America	BLM21PG221SN1D	Digi-Key	490-1054-1-ND
2	GND1, GND2	CON TP LOOP Black TH	Keystone	5011	Digi-Key	5011K-ND
1	J1	CON HDR-2.54 Male 1x3 Tin Lock 7.49MH TH VERT	TE Connectivity	640456-3	Digi-Key	A19470-ND
1	J2	CON USB MINI-B Female SMD R/A	Hirose	UX60-MB-5ST	Digi-Key	H2959CT-ND
2	LED1, LED2	DIO LED BI RED, GREEN 2V, 2.2V, 30mA, 25mA 4-SMD	Lumex Opto/Components Inc	SSL-LXA3025IGC-TR	Digi-Key	67-1372-1-ND
1	Q1	TRANS BJT NPN MMBT3904 40V 200mA 310mW SOT-23-3	Diodes Incorporated	MMBT3904-7	Digi-Key	MMBT3904DITR-ND
1	R1	RES TKF 10k 1% 1/10W SMD 0603	NIC Components	NRC06F1002TRF	NIC Components	NRC06F1002TRF
1	R2	RES TKF 20k 1% 1/10W SMD 0603	Yageo	9C06031A2002FKHFT	Digi-Key	311-20.0KHTR-ND
4	R3, R4, R5, R6	RES TKF 470R 1% 1/10W SMD 0603	Yageo	RC0603FR-07470RL	Digi-Key	311-470HRCT-ND
1	R7	RES TRIMMER Cermet 200R 20% 500mW TH 3352E	Bourns	3352E-1-201LF	Digi-Key	3352E-201LF-ND
3	R8, R9, R10	RES TKF 1k 1% 1/10W SMD 0603	Panasonic	ERJ-3EKF1001V	Digi-Key	P1.00KHCT-ND
1	R11	RES TKF 2.2k 1% 1/10W SMD 0603	Panasonic	ERJ-3EKF2201V	Digi-Key	P2.20KHCT-ND
3	R12, R13, R14	RES TF 10k 1% 1/8W SMD 0603	Vishay Beyschlag	MCT06030C1002FP500	Digi-Key	MCT0603-10.0K-CFTR-ND
2	U2, U3	IC LOGIC 74LVC1G04 SOT-23-5	Texas Instruments	SN74LVC1G04DBVR	Digi-Key	296-11599-1-ND

### Microchip Parts listed below

1	U1	MCP9902 DFN-8	Microchip	MCP9902-E/RW	Microchip	MCP9902-E/RW
1	U4	MCHP ANALOG LDO 3.3V MCP1825ST-3302E/DB SOT-223-3	Microchip	MCP1825S-3302E/DB	Microchip	MCP1825S-3302E/DB
1	U5	USB-to-I2C/UART/SMBus Protocol Converter with GPIO	Microchip	MCP2221-I/ST	Microchip	MCP2221-I/ST-ND

### Mechanical Parts to be added in the package

4	PAD1, PAD2, PAD3, PAD4	MECH HW RUBBER PAD	3M	SJ61A11	Digi-Key	SJ5747-0-ND
1	n/a	USB to MicroUSB cable for Kit BOM				

### Do Not Populate Parts listed below

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