

Bill of Materials

TI DESIGNS

2514022 revB

Note: The TMP006AIYZFR is no longer being produced and a suitable replacement part will need to be utilized
Note: In the detector board silkscreen, C2 is incorrectly labeled as C21. Please use C2 for this footprint. For the actual C21 footprint use C21

ITEM	QTY	REFERENCE DESIGNATOR	VALUE	DESCRIPTION	SIZE	MANUFACTURER	MANUFACTURER PART NUMBER
1	8	C1,C2,C8,C11,C12,C13,C14,C19	0.1uF	CAP CERAMIC .1UF 25V X5R 0402	CAP 0402	TDK	C1005X5R1E104K050BC
2	1	C15	47nF	CAP CERAMIC 0.047UF 25V X7R 0403	CAP 0403	MuRata	GRM155RR71E473KA88D
3	2	C3,C20	22uF	CAP CERAMIC 22UF 6.3V X5R 0603	CAP 0603	TDK	C1608X5R0J226M080AC
4	2	C4,C5	1uF	CAP CERAMIC 1UF 10V X5R 0603	CAP 0603	TDK	C1608X5R1A105K080AC
5	2	C6,C7	15uF	CAP CER 15UF 10V 20% X5R 0603	CAP 0603	TDK	C1608X5R1A156M080AC
6	2	C9,C17	51pF	CAP CERAMIC 51PF 50V NPO 0402	CAP 0402	MuRata	GRM1555C1H510JA01D
7	1	C10	10uF	CAP CERAMIC 10UF 10V X5R 0603	CAP 0603	TDK	C1608X5R1A106K080AC
8	2	C16,C18	100pF	CAP CER 100PF 50V 5% NPO 0402	CAP 0402	TDK	C1005C0G1H101J050BA
9	1	C21	0.01uF	CAP CER 10000PF 16V 10% X7R 0402	CAP 0402	TDK	CGJ2B2X7R1C103K050BA
10	3	D1	Socket	Socket, Pass Through	SOCKET	MIILL-MAX	8637-0-15-15-21-27-10-0
11	1	FB1	220 OHM	FERRITE BEAD 220 OHM 0402	FLTR 0402	Taiyo Yuden	BKP1005HS221-T
12	1	J1	SM14B-SRSS-TB(LF)(SN)	CONN HEADR SH 14POS SIDE 1MM TIN	HDR 14 1p0mm	JST	SM14B-SRSS-TB(LF)(SN)
13	4	R1,R17,R18,R19	10k	RES 10K OHM 1/16W 1% 0402 SMD	RES 0402	Yageo	RC0402FR-0710KL
14	2	R2,R13	240k	RES 240K OHM 1/16W 1% 0402 SMD	RES 0402	Yageo	RC0402FR-07240KL
15	4	R3,R4,R5,R14	100k	RES 100K OHM 1/16W 1% 0402 SMD	RES 0402	Yageo	RC0402FR-07100KL
16	2	R6,R12	301	RES 301 OHM 1/16W 1% 0402 SMD	RES 0402	ROHM	RC0402FR-07301RL
17	1	R7	0	RES 0.0 OHM 1/10W JUMP 0402 SMD	RES 0402	PANASONIC	ERJ-2GE0R00X
18	4	R8,R9,R10,R11	100	RES 100 OHM 1/16W 1% 0402 SMD	RES 0402	ROHM	MCR01MRTF1000
19	2	R15,R16	49.9	RES 49.9 OHM 1/16W 1% 0402 SMD	RES 0402	ROHM	MCR01MRTF49R9
20	1	U1	REF5025AIDGK	IC VREF SERIES PREC 2.5V 8VSSOP	8VSSOP	Texas Instruments	REF5025AIDGK
21	1	U2	OPA350EA	IC OPAMP GP 38MHZ RRO 8VSSOP	8VSSOP	Texas Instruments	OPA350EA
22	1	U3	OPA2376AIYZDT	IC OPAMP GP 5.5MHZ RRO 8DSBGA	8DSBGA	Texas Instruments	OPA2376AIYZDT
23	1	U4	ADS1255IDB	IC ADC 24-BIT SPI PROGBL 20-SSOP	SSOP_20	Texas Instruments	ADS1255IDB
24	1	U5	TMP006AIYZFR	(OBSOLETE) IC SENSOR THERMOPILE 8DSBGA	8DSBGA	Texas Instruments	TMP006AIYZFR
25	1	Y1	8.00MHz	CERAMIC RESONATOR 8.0MHz INTERNAL CAPS	CEM_RES_CSTCE_G15C	MURATA	CSTCE8M00G52-R0

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