

Bill of Materials

TIDEP0041

Generating the AVS SmartReflex Core voltage for the K2E using the TPS544C25 and the LM10000
BOM 02/26/2015

Item	Qty	Reference	Part	Mfg
1	2	CT1,CT3	1000uF	Kemet
2	1	CT2	680uF	Panasonic - ECG
3	2	CT4,CT5	100uF	Vishay
4	5	TP51,TP86,TP93,GNDC,CVDD	Test Point	--NA--
5	4	C62,C63,C206,C436	10uF	TDK Corporation
6	4	C64,C66,C439,C781	100uF	Taiyo Yuden
7	4	C65,C225,C437,C438	47uF	Taiyo Yuden
8	39	C74,C75,C96,C184,C185, C556,C563,C567,C568,C575, C579,C588,C589,C596,C597, C603,C604,C605,C606,C608, C614,C615,C623,C624,C625, C632,C639,C640,C652,C653, C654,C660,C679,C683,C692, C693,C745,C756,C757	TBD	TBD
9	26	C76,C90,C91,C92,C93,C167, C170,C172,C173,C179,C181, C277,C296,C447,C449,C451, C460,C461,C464,C465,C744, C750,C751,C752,C753,C754	100nF	TDK Corporation
10	6	C77,C168,C279,C448,C739, C849	2.2uF	TDK Corporation
11	4	C78,C79,C740,C741	470nF	TDK Corporation
12	2	C80,C169	4.7uF	TDK Corporation
13	16	C81,C88,C166,C171,C178, C180,C182,C183,C445,C446, C450,C452,C458,C466,C738, C743	220nF	TDK Corporation
14	5	C89,C257,C459,C742,C755	1uF	TDK Corporation
15	1	C219	22uF	Taiyo Yuden
16	3	C266,C267,C268	22uF	TDK Corporation
17	3	C270,C281,C793	4.7uF	Samsung
18	1	C276	10pF	Murata
19	16	C503,C509,C520,C535,C547,	100nF	TDK Corporation

		C559,C570,C616,C641,C642, C645,C655,C672,C676,C677, C700		
20	22	C508,C521,C522,C526,C543, C544,C549,C554,C555,C566, C578,C580,C587,C627,C657, C658,C666,C667,C668,C688, C689,C699	10nF	TDK Corporation
21	20	C525,C558,C569,C571,C581, C582,C590,C591,C617,C618, C619,C628,C629,C643,C644, C656,C690,C694,C701,C702	22nF	TDK Corporation
22	4	C534,C548,C675,C678	560pF	Samsung
23	5	C626,C665,C686,C687,C698	47nF	TDK Corporation
24	1	C842	4.7nF	Yageo
25	1	C857	100pF	Murata
26	2	C858,C859	2.2nF	TDK Corporation
27	1	D15	B340A-13-F	Diodes Inc
28	1	FB38	220_100MHz	Taiyo Yuden
29	1	L12	220nH,30.7A	Vishay Dale
30	5	R244,R528,R536,R537,R608	4.7K	Panasonic - ECG
31	1	R262	10E	Panasonic - ECG
32	11	R263,R277,R577,R580,R583, R584,R588,R589,R603,R611, R612	0E	Panasonic - ECG
33	2	R266,R271	15.4K	Panasonic - ECG
34	1	R267	1E	Panasonic - ECG
35	1	R268	121K	Panasonic - ECG
36	1	R275	20K	Panasonic - ECG
37	3	R276,R278,R280	10K	Panasonic - ECG
38	1	R279	8.25K	Panasonic - ECG
39	2	R468,R470	2.2K	Panasonic - ECG
40	2	R477,R478	0E	Panasonic - ECG
41	2	R544,R546	100E	Panasonic - ECG
42	2	R545,R547	10E	Panasonic - ECG
43	1	R587	6.81K	Panasonic - ECG
44	1	R590	215K	Panasonic - ECG
45	1	R592	8.45K	Vishay Dale
46	1	R593	93.1K	Panasonic - ECG
47	1	R594	2K	Panasonic - ECG
48	1	U23	K2E_Processor	TI
49	1	U34	TPS544C25	TI
50	1	U35	LM10011SD	TI



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Mfg Part#	Vendor	Vendor Part#
T530Y108M2R5ATE005	DigiKey	399-4749-2-ND
2R5TPF680ML	DigiKey	P16221CT-ND
TR3D107K020C0080	DigiKey	718-1774-1-ND
--NA--	--NA--	--NA--
C1608X5R1E106M080AC	DigiKey	445-9015-1-ND
JMK316BJ107ML-T	DigiKey	587-1963-1-ND
JMK212BJ476MG-T	DigiKey	587-1779-1-ND
TBD	TBD	TBD

C1005X5R1E104K050BC	DigiKey	445-4964-1-ND
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C1005X5R1A225K050BC	DigiKey	445-7392-1-ND
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C1005X5R1A474K050BB	DigiKey	445-4989-1-ND
C1005JB1A475M050BC	DigiKey	445-10915-1-ND
C1005X5R1A224K050BC	DigiKey	445-4985-1-ND

C1005X5R1C105K050BC	DigiKey	445-4978-1-ND
LMK212BJ226MG-T	DigiKey	587-1958-2-ND
C2012JB1E226M125AC	DigiKey	445-11475-2-ND
CL10A475MA8NQNC	DigiKey	1276-1903-2-ND
GRM1555C1H100JA01D	DigiKey	490-5921-6-ND
C0603X5R0J104K030BC	DigiKey	445-1796-2-ND

C0603X5R1A103M030BA	DigiKey	445-4702-1-ND
C0603JB0J223K030BC	DigiKey	445-10732-1-ND
CL03B561KO3NNNC	DigiKey	1276-1357-1-ND
C0603X5R0J473K030BC	DigiKey	445-1795-2-ND
CC0402KRX7R8BB472	DigiKey	311-1039-1-ND
GRM1555C1H101JA01D	DigiKey	490-5922-1-ND
C1005X7R1H222K050BA	DigiKey	445-1257-6-ND
B340A-13-F	DigiKey	B340A-FDICT-ND
FBMH3216HM221NTV	DigiKey	587-3834-1-ND
IHLP3232DZERR22M01	Digikey	541-1378-1-ND
ERJ-2GEJ472X	DigiKey	P4.7KJCT-ND
ERJ-6ENF10R0V	DigiKey	P10.0CCT-ND
ERJ-2GE0R00X	DigiKey	P0.0JCT-ND
ERJ-2RKF1542X	DigiKey	P15.4KLCT-ND
ERJ-8GEYJ1R0V	DigiKey	P1.0ECT-ND
ERJ-2RKF1213X	Digikey	P121KLCT-ND
ERJ-2RKF2002X	DigiKey	P20.0KLTR-ND
ERJ-2RKF1002X	DigiKey	P10.0KLCT-ND
ERJ-2RKF8251X	DigiKey	P8.25KLCT-ND
ERJ-2GEJ222X	DigiKey	P2.2KJCT-ND
ERJ-1GE0R00C	DigiKey	P0.0AGCT-ND
ERJ-1GEF1000C	DigiKey	P100ABCT-ND
ERJ-1GEJ100C	DigiKey	P10AGTR-ND
ERJ-2RKF6811X	DigiKey	P6.81KLCT-ND
ERJ-2RKF2153X	DigiKey	P215KLCT-ND
CRCW04028K45FKED	DigiKey	541-8.45KLCT-ND
ERJ-2RKF9312X	DigiKey	P93.1KLCT-ND
ERJ-2GEJ202X	DigiKey	P2.00KLCT-ND
X66AK2E05ABD	TI	X66AK2E05ABD
TPS544C24	TI	TPS544C24
LM10011SD	DigiKey	296-35633-1-ND

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