

## 3.2 Bill of Materials

Table 5 displays the BOM for this EVM.

**Table 5. TPA3136D2EVM Parts List**

Designator	Qty	Value	Description	Package	Part Number	Manufacturer
C1	1	1uF	CAP, CERM, 1 $\mu$ F, 35 V, +/- 10%, X5R, 0603	0603	GMK107BJ105KA-T	Taiyo Yuden
C2, C8	2	100uF	CAP, AL, 100uF, 50V, +/-20%, 0.17 ohm, TH	8.0x10.5mm	UHE1H101MPD	Nichicon
C3, C9	2	0.1uF	CAP, CERM, 0.1uF, 50V, +/-10%, X7R, 0603	0603	GRM188R71H104KA93D	Murata
C4, C10	2	1000pF	CAP, CERM, 1000pF, 50V, +/-5%, C0G/NP0, 0603	0603	GRM1885C1H102JA01D	Murata
C5, C12, C21, C26	4	330pF	CAP, CERM, 330pF, 50V, +/-5%, C0G/NP0, 0603	0603	GRM1885C1H331JA01D	Murata
C6, C13, C22, C27	4	1000pF	CAP, CERM, 1000 pF, 100 V, +/- 10%, X7R, 1206	1206	12061C102KAT2A	AVX
C7, C14, C23, C28	4	1000pF	CAP, CERM, 1000 pF, 50 V, +/- 10%, C0G/NP0, 0603	0603	06035A102KAT2A	AVX
C11, C15, C16, C24, C25	5	1uF	CAP, CERM, 1uF, 16V, +/-10%, X7R, 0603	0603	GRM188R71C105KA12D	Murata
C17, C18, C19, C20	4	0.22uF	CAP, CERM, 0.22 $\mu$ F, 25 V, +/- 10%, X7R, 0603	0603	GRM188R71E224KA88D	Murata
J1, J3, J11	3		Binding Post, RED, TH	11.4x27.2mm	7006	Keystone
J2, J5, J8	3		Binding Post, BLACK, TH	11.4x27.2mm	7007	Keystone
J4	1		RCA Jack, White, R/A, TH	PC Mount Phono Jack-White, TH	970	Keystone
J6, J7, J10, J12, J13	5		Header, 100mil, 2x1, TH	Header, 2x1, 100mil, TH	800-10-002-10-001000	Mill-Max
J9	1		RCA Jack, Red, R/A, TH	PC Mount Phono Jack-Red, TH	971	Keystone
L1, L3	2	100 ohm	Ferrite Bead, 100 ohm @ 100 MHz, 8 A, 2-Pin SMD, Body 4.5 x 3.2 mm, Height 2.55 mm	2-Pin SMD, Body 4.5 x 3.2 mm, Height 2.55 mm	HI1812V101R-10	Laird-Signal Integrity Products
L2, L4, L5, L6	4	300 ohm	Ferrite Bead, 300 ohm @ 100 MHz, 3.1 A, 0806	0806	NFZ2MSM301SN10L	Murata
R1, R3, R7, R10	4	10.0	RES, 10.0, 1%, 0.25 W, 0603	0603	CRCW060310R0FKEAHP	Vishay-Dale
R2, R4, R8, R11	4	68	RES, 68, 5%, 0.1 W, 0603	0603	CRCW060368R0JNEA	Vishay-Dale
R5	1	10.0k	RES, 10.0k ohm, 0.1%, 0.1W, 0603	0603	RG1608P-103-B-T5	Susumu Co Ltd
R6	1	100k	TRIMMER, 100k ohm, 0.5W, TH	375x190x375mil	3386P-1-104LF	Bourns
R9	1	100k	RES, 100k ohm, 1%, 0.063W, 0402	0402	CRCW0402100KFKED	Vishay-Dale
R12	1	100k	RES, 100k ohm, 1%, 0.1W, 0603	0603	RC0603FR-07100KL	Yageo America
S1	1		Switch, Tactile, SPST-NO, 0.05A, 12V, SMT	Switch, 4.4x2x2.9 mm	TL1015AF160QG	E-Switch
SHUNT1,SHUNT2,SHUNT3,SHUNT4, SHUNT5	5	1x2	Shunt, 100mil, Gold plated, Black	Shunt	SNT-100-BK-G	Samtec
TP1, TP2	2	Black	Test Point, Compact, Black, TH	Black Compact Testpoint	5006	Keystone
TP3, TP4, TP6, TP7, TP8, TP9, TP10	7	Orange	Test Point, Miniature, Orange, TH	Orange Miniature Testpoint	5003	Keystone
TP5	1	Red	Test Point, Compact, Red, TH	Red Compact Testpoint	5005	Keystone
U1	1		15-W Filter-Free Stereo Class-D Audio Power Amplifier With Speakerguard, PWP0028E	PWP0028E	TPA3136D2PWP	Texas Instruments