

THS7316 Video Buffer Breakout								
Item #	Reference Designator	Qty	Manufacturer	Mfg Part #	Description / Value	Package/Footprint	Type	Instructions / Notes
1	C1,C3,C5,C6,C7,C9,C11,C18	8	Samsung	CL21B104KBCNNWC	Capacitor MLCC 100nF+/-10% 50V X7R 0805	0805	SMD	
2	C2	1	Samsung	CL21A226KOQNNNG	CAP CER 22UF 16V X5R 0805	0805	SMD	
3	C4,C8,C10	3	Würth Elektronik	865080143009	CAP ALUM 220UF 20% 6.3V SMD	6.6x6.6mm	SMD	
4	C12,C15	2	Samsung	CL21B102KBCNNNC	CAP CER 1000PF 50V X7R 0805	0805	SMD	
5	C13,C14,C16,C17	4	Samsung	CL21A105KBCLNNC	CAP CER 1UF 50V X5R 0805	0805	SMD	
6	C19	1	Samsung	CL21A106KAYNNNE	CAP CER 10UF 25V X5R 0805	0805	SMD	
7	FB1	1	TDK Corporation	MPZ2012S331AT000	FERRITE BEAD 330 OHM 0805	0805	SMD	
8	H1,H2,H3,H4	0						Mount holes, no component
9	J1	1	Sullins Connector Solutions	PREC007SAAN-RC	CONN HEADER VERT 7POS 2.54MM	7POS	THRU-HOLE	
10	J2	1	Sullins Connector Solutions	PREC009SAAN-RC	CONN HEADER VERT 9POS 2.54MM	9POS	THRU-HOLE	
11	R1,R2,R3,R9,R10,R11	0						Do Not Install
12	R4,R5,R6,R7,R8,R12	6	Panasonic	ERJ-6GEYJ750V	RES SMD 75 OHM 5% 1/8W 0805	0805	SMD	
13	R13,R14,R16,R17,R19,R20	6	Panasonic	ERJ-6GEYJ103V	RES SMD 10K OHM 5% 1/8W 0805	0805	SMD	
14	R15,R18	2	Panasonic	ERJ-6GEYJ101V	RES SMD 100 OHM 5% 1/8W 0805	0805	SMD	
15	U1	1	Texas Instruments	THS7316DR	IC AMP BUFFER 8SOIC	8-SOIC	SMD	
16	U2	1	Texas Instruments	NE5532DR	IC OPAMP GP 2 CIRCUIT 8SOIC	8-SOIC	SMD	