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TEXAS INSTRUMENTS

TIDA-050050 REV E1 Bill of Materials

1	0603 0603 1206_190 0805 0402 0603 0805 0402 0402 1, 0402 1, 0402 0603 0603 0603 0603 0603 Acceptable Service S
C14 3 C5, C13 2 1uF EMK107B7105KA-T Taiyo Yuden CAP, CERM, 1 uF, 16 V, +/- 10%, X7R, 0603 4 C6 1 10uF TMK316B7106KL-TD Taiyo Yuden CAP, CERM, 10 uF, 25 V, +/- 10%, X7R, 1206_190 5 C7 1 4,7uF C2012X7R16475K125AB TDK CAP, CERM, 10 uF, 25 V, +/- 10%, X7R, 0603 6 C8, C9, C26 3 0.1uF C1005X7R16475K125AB TDK CAP, CERM, 4.7 uF, 50 V, +/- 10%, X7R, 0402 7 C15, C16 2 4,7uF JMK107BB7475MA-T Taiyo Yuden CAP, CERM, 4.7 uF, 50 V, +/- 10%, X7R, 0603 8 C17 1 22uF C2012X751A226M125AC TDK CAP, CERM, 4.7 uF, 50 V, +/- 10%, X7R, 0603 8 C17 1 0,1uF 0402YC104KAT2A AVX CAP, CERM, 0.1 uF, 16 V, +/- 10%, X7R, 0402 C21, C29, C30, C32, C33, C34, C35, C36 10 C22, C23, C24, 5 0.01uF 520L103KT16T AT Ceramics CAP, CERM, 0.01 uF, 16 V, +/- 10%, X7R, 0402 C25, C28 11 C27 1 0.047uF CGA2B3X7R1H473K050BB TDK CAP, CERM, 0.01 uF, 16 V, +/- 10%, X7R, 0402 C25, C28 C28 11 C27 1 0.047uF CGA2B3X7R1H473K050BB TDK CAP, CERM, 0.047 uF, 50 V, +/- 10%, X7R, AEC-Q200 Grade 1, C42, C43, C44, C45 13 C39, C40, C46 3 10uF CL10B106MQ8NRNC Samsung Electro-Mechanics CAP, CERM, 1 µF, 16 V, +/- 10%, X7R, AEC-Q200 Grade 1, 0603 14 L1, L4 2 1000 ohm BLM18AG102SNID MuRata Ferrite Bead, 1000 ohm @ 100 MHz, 0.4 A, 0603 15 L2 1 4, 7uH CBC3225T4R7MR Taiyo Yuden Inductor, Wirewound, 4.7 uH, 1.01 A, 0.1 ohm, SMD 16 L3 1 100uH CBC3225T101MR Taiyo Yuden Inductor, Wirewound, 100 uH, 0.7 A, 1.4 ohm, SMD 17 L5 1 1 2.2uH TFM201610ALMA2R2MTAA TDK Inductor, Shielded, Metal Composite, 2.2 µH, 1.9 A, 0.152 ohm, A Grade 0, SMD 18 L6, L7 2 1uH TFM201610ALMA2R2MTAA TDK Inductor, Shielded, Metal Composite, 1 µH, 3.1 A, 0.06 ohm, AEC Grade 0, SMD 19 L8, L9 2 600 ohm BLM18AG221SNID MuRata Ferrite Bead, 600 ohm @ 100 MHz, 1.3 A, 0.06 ohm, AEC Grade 0, SMD 19 L8, L9 2 600 ohm BLM18AG221SNID MuRata Ferrite Bead, 200 ohm @ 100 MHz, 0.45 A, 0402	0603 1206_190 0805 0402 0603 0805 0402 0402 1, 0402 0402 1, 0402 03 0603 0603 0603 0603 0805 0402
4 C6 1 10UF TMK316B7106KL-TD Taiyo Yuden CAP, CERM, 10 UF, 25 V, +/- 10%, X7R, 1206,190 5 C7 1 4.7uF C2012X7R1E475K125AB TDK CAP, CERM, 4.7 UF, 25 V, +/- 10%, X7R, 0805 6 C8, C9, C26 3 0.1uF C1005X7R1H104K050BB TDK CAP, CERM, 0.1 UF, 50 V, +/- 10%, X7R, 0402 7 C15, C16 2 4.7uF JMK107BB7475MA-T Taiyo Yuden CAP, CERM, 4.7 UF, 6.3 V, +/- 10%, X7R, 0603 8 C17 1 22uF C2012X7S1A226M125AC TDK CAP, CERM, 2 UF, 16.3 V, +/- 10%, X7R, 0603 9 C18, C19, C20, C30, C30, C30, C32, C33, C34, C35, C36 0.01uF 0402YC104KAT2A AVX CAP, CERM, 0.1 uF, 16 V, +/- 10%, X7R, 0402 C25, C28 1 0.01uF 520L103KT16T AT Ceramics CAP, CERM, 0.01 uF, 16 V, +/- 10%, X7R, AEC-Q200 Grade 1, C42, C43, C44, C45 11 C27 1 0.047uF GCA2B3X7R1H473K050BB TDK CAP, CERM, 0.047 uF, 50 V, +/- 10%, X7R, AEC-Q200 Grade 1, C42, C43, C44, C44, C43, C44, C45 12 C37, C38, C41, C46 7 1uF GCM188R71C105KA64J MuRata	1206_190 0805 0402 0603 0805 0402 0402 1, 0402 1, 0402 0603 0603 0603 0603 3.2x2.5x2.5mm 3.2x2.5x2.5mm AEC-Q200 0806
5 C7	0805 0402 0603 0805 0402 0402 1, 0402 1, 0402 03 0603 0603 0603 0603 0603 3.2x2.5x2.5mm 3.2x2.5x2.5mm
6 C8, C9, C26 3 0.1uF C1005X7R1H104K050BB TDK CAP, CERM, 0.1 uF, 50 V, +/- 10%, X7R, 0402 7 C15, C16 2 4.7uF JMK107BB7475MA-T Taiyo Yuden CAP, CERM, 4.7 uF, 6.3 V, +/- 10%, X7R, 0603 8 C17 1 22uF C2012X781A226M125AC TDK CAP, CERM, 20 uF, 10 V, +/- 20%, X7R, 0603 9 C18, C19, C20, C21, C29, C30, C31, C34, C35, C36 10 C22, C33, C34, C35, C36 10 C22, C23, C24, 5 0.01uF 520L103KT16T AT Ceramics CAP, CERM, 0.01 uF, 16 V, +/- 10%, X7R, 0402 11 C27 1 0.047uF CGA2B3X7R1H473K050BB TDK CAP, CERM, 0.047 uF, 50 V, +/- 10%, X7R, AEC-Q200 Grade 1, C42, C43, C44, C42, C43, C44, C45 13 C39, C40, C46 3 10uF CL10B106MQ8NRNC Samsung Electro-Mechanics CAP, CERM, 10 μF, 6.3 V, +/- 20%, X7R, 0603 14 L1, L4 2 1000 ohm BLM18AG102SM1D MuRata Ferrite Bead, 1000 ohm GDM BLM18AG102SM1D TDK Inductor, Shielded, Metal Composite, 1 μH, 3.1 A, 0.06 ohm, AEC-Grade 0, SMD 18 L6, L7 2 1uH TFM201610ALMA1R0MTAA TDK 19 L8, L9 2 600 ohm BLM18KG601SM1D MuRata Ferrite Bead, 600 ohm @ 100 MHz, 1.3 A, 0603 10 C18, C19, C2P, CERM, 0.1 uF, 50 V, +/- 10%, X7R, 0402 CAP, CERM, 0.1 uF, 16 V, +/- 10%, X7R, AEC-Q200 Grade 1, 0603 CAP, CERM, 0.04 uF, 16 V, +/- 10%, X7R, AEC-Q200 Grade 1, 0603 CAP, CERM, 0.04 uF, 16 V, +/- 10%, X7R, AEC-Q200 Grade 1, 0603 CAP, CERM, 0.04 uF, 16 V, +/- 10%, X7R, AEC-Q200 Grade 1, 0603 CAP, CERM, 0.04 uF, 16 V, +/- 10%, X7R, AEC-Q200 Grade 1, 0603 CAP, CERM, 0.04 uF, 16 V, +/- 10%, X7R, AEC-Q200 Grade 1, 0603 CAP, CERM, 0.04 uF, 16 V, +/- 10%, X7R, AEC-Q200 Grade 1, 0603 CAP, CERM, 0.04 uF, 16 V, +/- 10%, X7R, AEC-Q200 Grade 1, 0603 CAP, CERM, 0.04 uF, 16 V, +/- 10%, X7R, AEC-Q200 Grade 1, 0603 CAP, CERM, 0.04 uF, 16 V, +/- 10%, X7R, AEC-Q200 Grade 1, 0603 CAP, CERM, 0.04 uF, 16 V, +/- 10%, X7R, AEC-Q200 Grade 1, 0603 CAP, CERM, 0.04 uF, 16 V, +/- 10%, X7R, AEC-Q200 Grade 1, 0603 CAP, CERM, 0.04 uF, 16 V, +/- 10%, X7R, AEC-Q200 Grade 1, 0603 CAP, CERM, 0.04 uF, 16 V, +/- 10%, X7R, AEC-Q200 Grade 1, 0603 CAP, CERM, 0.04 uF, 16 V, +/- 10%, X7R, 0402 CAP, CERM, 0.04 uF, 16 V, +/- 10%, X7R, 0402 CAP, CERM, 0	0402 0603 0805 0402 1, 0402 1, 0402 03 0603 0603 0603 0603 0603 0603 0803 3.2x2.5x2.5mm 3.2x2.5x2.5mm
7 C15, C16 2 4.7uF JMK107BB7475MA-T Taiyo Yuden CAP, CERM, 4.7 uF, 6.3 V, +/- 10%, X7R, 0603 8 C17 1 22uF C2012X7S1A226M125AC TDK CAP, CERM, 22 uF, 10 V, +/- 20%, X7S, 0805 9 C18, C19, C20, C21, C29, C30, C32, C33, C34, C35, C36 10 C22, C23, C24, C25, C28 11 C27 1 0.047uF CGA2B3X7R1H473K050BB TDK CAP, CERM, 0.01 uF, 16 V, +/- 10%, X7R, 0402 11 C27 1 0.047uF CGA2B3X7R1H473K050BB TDK CAP, CERM, 0.04 uF, 16 V, +/- 10%, X7R, AEC-Q200 Grade 1, C42, C43, C44, C42 13 C39, C40, C46 13 C39, C40, C46 14 L1, L4 2 1000 ohm BLM18AG102SN1D MuRata Ferrite Bead, 1000 ohm @ 100 MHz, 0.4 A, 0603 14 L1, L4 2 1000 ohm BLM18AG102SN1D MuRata Ferrite Bead, 1000 ohm @ 100 MHz, 0.4 A, 0603 15 L2 1 4,7uH CBC3225T47MR Taiyo Yuden Inductor, Wirewound, 4.7 uH, 1.0 H, 0.7 A, 1.4 ohm, SMD 16 L3 1 100uH CBC3225T101MR Taiyo Yuden Inductor, Wirewound, 100 uH, 0.27 A, 1.4 ohm, SMD 17 L5 1 1 2.2uH TFM201610ALMA2R2MTAA TDK Inductor, Shielded, Metal Composite, 1 μH, 3.1 A, 0.06 ohm, AEC-Grade 0, SMD 19 L8, L9 2 600 ohm BLM18KG601SN1D MuRata Ferrite Bead, 0.00 ohm @ 100 MHz, 0.45 A, 0402 10 C15, C16, C17, C18, C19, C10, C10, C10, C10, C10, C10, C10, C10	0603 0805 0402 0402 1, 0402 03 0603 0603 0603 0603 3.2x2.5x2.5mm 3.2x2.5x2.5mm
8 C17	0805 0402 0402 1, 0402 03 0603 0603 0603 3.2x2.5x2.5mm 3.2x2.5x2.5mm AEC-Q200
9 C18, C19, C20, C21, C29, C30, C21, C29, C30, C32, C33, C34, C35, C36 10 C22, C23, C24, C25, C28 11 C27 12 C37, C38, C41, C42, C43, C44, C45 13 C39, C40, C46 14 L1, L4 15 L2 16 L3 17 L00 D0 hm 17 L5 18 L6, L7 19 L8, L9 20 600 ohm 10 BLM18KG601SN1D MuRata CAP, CERM, 0.1 uF, 16 V, +/- 10%, X7R, 0402 CAP, CERM, 0.01 uF, 16 V, +/- 10%, X7R, 0402 CAP, CERM, 0.01 uF, 16 V, +/- 10%, X7R, 0402 CAP, CERM, 0.01 uF, 16 V, +/- 10%, X7R, 0402 CAP, CERM, 0.047 uF, 50 V, +/- 10%, X7R, AEC-Q200 Grade 1, 0603 CAP, CERM, 1 μF, 16 V, +/- 10%, X7R, AEC-Q200 Grade 1, 0603 CAP, CERM, 1 μF, 16 V, +/- 10%, X7R, AEC-Q200 Grade 1, 0603 CAP, CERM, 1 μF, 16 V, +/- 10%, X7R, AEC-Q200 Grade 1, 0603 CAP, CERM, 1 μF, 16 V, +/- 10%, X7R, AEC-Q200 Grade 1, 0603 CAP, CERM, 1 μF, 16 V, +/- 10%, X7R	0402 0402 1, 0402 0402 03 0603 0603 0603 0603 3.2x2.5x2.5mm 3.2x2.5x2.5mm
C21, C29, C30, C32, C33, C34, C35, C36 10 C22, C23, C24, 5 0.01uF 520L103KT16T AT Ceramics CAP, CERM, 0.01 uF, 16 V, +/- 10%, X7R, 0402 C25, C28 11 C27 1 0.047uF CGA2B3X7R1H473K050BB TDK CAP, CERM, 0.047 uF, 50 V, +/- 10%, X7R, AEC-Q200 Grade 1, C42, C43, C44, C45 13 C37, C38, C41, C45, C45, C45 14 L1, L4 2 1000 ohm BLM18AG102SN1D MuRata Ferrite Bead, 1000 ohm @ 100 MHz, 0.4 A, 0603 15 L2 1 4.7uH CBC3225T101MR Taiyo Yuden Inductor, Wirewound, 4.7 uH, 1.01 A, 0.1 ohm, SMD 16 L3 1 100uH CBC3225T101MR Taiyo Yuden Inductor, Wirewound, 4.7 uH, 1.01 A, 0.152 ohm, A Grade 0, SMD 18 L6, L7 2 1uH TFM201610ALMA2R2MTAA TDK Inductor, Shielded, Metal Composite, 2.2 μH, 3.1 A, 0.06 ohm, AEC-Grade 0, SMD 19 L8, L9 2 600 ohm BLM18AG01SN1D MuRata Ferrite Bead, 600 ohm @ 100 MHz, 1.3 A, 0603 10 MuRata Ferrite Bead, 600 ohm @ 100 MHz, 1.3 A, 0603 11 TFM201610ALMA1R0MTAA TDK Inductor, Shielded, Metal Composite, 1 μH, 3.1 A, 0.06 ohm, AEC-Grade 0, SMD 19 L8, L9 2 600 ohm BLM18KG601SN1D MuRata Ferrite Bead, 600 ohm @ 100 MHz, 1.3 A, 0603 10 L10, L11, L12, 4 220 ohm BLM18AG221SN1D MuRata Ferrite Bead, 600 ohm @ 100 MHz, 0.45 A, 0402	0402 1, 0402 0402 03 0603 0603 0603 0603 3.2x2.5x2.5mm 3.2x2.5x2.5mm AEC-Q200 0806
C25, C28 11 C27	1, 0402 0402 03 0603 0603 0603 0603 3.2x2.5x2.5mm 3.2x2.5x2.5mm AEC-Q200 0806
12 C37, C38, C41, C42, C43, C44, C45 13 C39, C40, C46 14 L1, L4 2 1000 ohm BLM18AG102SN1D MuRata MuRata CAP, CERM, 1 μF, 16 V,+/- 10%, X7R, AEC-Q200 Grade 1, 0603 Amsung Electro-Mechanics CAP, CERM, 10 μF, 6.3 V,+/- 20%, X7R, 0603 Ferrite Bead, 1000 ohm @ 100 MHz, 0.4 A, 0603 15 L2 1 4.7uH CBC3225T4R7MR Taiyo Yuden Inductor, Wirewound, 4.7 uH, 1.01 A, 0.1 ohm, SMD 16 L3 1 100uH CBC3225T101MR Taiyo Yuden Inductor, Wirewound, 100 uH, 0.27 A, 1.4 ohm, SMD 17 L5 1 2.2uH TFM201610ALMA2R2MTAA TDK Inductor, Shielded, Metal Composite, 2.2 μH, 1.9 A, 0.152 ohm, A Grade 0, SMD 18 L6, L7 2 1uH TFM201610ALMA1R0MTAA TDK Inductor, Shielded, Metal Composite, 1 μH, 3.1 A, 0.06 ohm, AEC-Grade 0, SMD 19 L8, L9 2 600 ohm BLM18KG601SN1D MuRata Ferrite Bead, 600 ohm @ 100 MHz, 1.3 A, 0603 20 L10, L11, L12, 4 220 ohm BLM15AG221SN1D MuRata Ferrite Bead, 220 ohm @ 100 MHz, 0.45 A, 0402	0603 0603 0603 0603 3.2x2.5x2.5mm 3.2x2.5x2.5mm AEC-Q200 0806
C42, C43, C44, C45 C45 Samsung Electro-Mechanics CAP, CERM, 10 μF, 6.3 V,+/- 20%, X7R, 0603 14 L1, L4 2 1000 ohm BLM18AG102SN1D MuRata Ferrite Bead, 1000 ohm @ 100 MHz, 0.4 A, 0603 15 L2 1 4.7uH CBC3225T4R7MR Taiyo Yuden Inductor, Wirewound, 4.7 uH, 1.01 A, 0.1 ohm, SMD 16 L3 1 100uH CBC3225T101MR Taiyo Yuden Inductor, Wirewound, 100 uH, 0.27 A, 1.4 ohm, SMD 17 L5 1 2.2uH TFM201610ALMA2R2MTAA TDK Inductor, Shielded, Metal Composite, 2.2 μH, 1.9 A, 0.152 ohm, A Grade 0, SMD 18 L6, L7 2 1uH TFM201610ALMA1R0MTAA TDK Inductor, Shielded, Metal Composite, 1 μH, 3.1 A, 0.06 ohm, AEC Grade 0, SMD 19 L8, L9 2 600 ohm BLM18KG601SN1D MuRata Ferrite Bead, 600 ohm @ 100 MHz, 1.3 A, 0603 20 L10, L11, L12, 4 220 ohm BLM15AG221SN1D MuRata Ferrite Bead, 220 ohm @ 100 MHz, 0.45 A, 0402	0603 0603 3.2x2.5x2.5mm 3.2x2.5x2.5mm AEC-Q200 0806
14 L1, L4 2 1000 ohm BLM18AG102SN1D MuRata Ferrite Bead, 1000 ohm @ 100 MHz, 0.4 A, 0603 15 L2 1 4.7uH CBC3225T4R7MR Taiyo Yuden Inductor, Wirewound, 4.7 uH, 1.01 A, 0.1 ohm, SMD 16 L3 1 100uH CBC3225T101MR Taiyo Yuden Inductor, Wirewound, 100 uH, 0.27 A, 1.4 ohm, SMD 17 L5 1 2.2uH TFM201610ALMA2R2MTAA TDK Inductor, Shielded, Metal Composite, 2.2 µH, 1.9 A, 0.152 ohm, A Grade 0, SMD 18 L6, L7 2 1uH TFM201610ALMA1R0MTAA TDK Inductor, Shielded, Metal Composite, 1 µH, 3.1 A, 0.06 ohm, AEC Grade 0, SMD 19 L8, L9 2 600 ohm BLM18KG601SN1D MuRata Ferrite Bead, 600 ohm @ 100 MHz, 1.3 A, 0603 20 L10, L11, L12, 4 220 ohm BLM15AG221SN1D MuRata Ferrite Bead, 220 ohm @ 100 MHz, 0.45 A, 0402	0603 3.2x2.5x2.5mm 3.2x2.5x2.5mm AEC-Q200 0806
15 L2 1 4.7uH CBC3225T4R7MR Taiyo Yuden Inductor, Wirewound, 4.7 uH, 1.01 A, 0.1 ohm, SMD 16 L3 1 100uH CBC3225T101MR Taiyo Yuden Inductor, Wirewound, 100 uH, 0.27 A, 1.4 ohm, SMD 17 L5 1 2.2uH TFM201610ALMA2R2MTAA TDK Inductor, Shielded, Metal Composite, 2.2 μH, 1.9 A, 0.152 ohm, A Grade 0, SMD 18 L6, L7 2 1uH TFM201610ALMA1R0MTAA TDK Inductor, Shielded, Metal Composite, 1 μH, 3.1 A, 0.06 ohm, AECGrade 0, SMD 19 L8, L9 2 600 ohm BLM18KG601SN1D MuRata Ferrite Bead, 600 ohm @ 100 MHz, 1.3 A, 0603 20 L10, L11, L12, 4 220 ohm BLM15AG221SN1D MuRata Ferrite Bead, 220 ohm @ 100 MHz, 0.45 A, 0402	3.2x2.5x2.5mm 3.2x2.5x2.5mm AEC-Q200 0806
16 L3 1 100uH CBC3225T101MR Taiyo Yuden Inductor, Wirewound, 100 uH, 0.27 A, 1.4 ohm, SMD 17 L5 1 2.2uH TFM201610ALMA2R2MTAA TDK Inductor, Shielded, Metal Composite, 2.2 μH, 1.9 A, 0.152 ohm, Al Grade 0, SMD 18 L6, L7 2 1uH TFM201610ALMA1R0MTAA TDK Inductor, Shielded, Metal Composite, 1 μH, 3.1 A, 0.06 ohm, AEC-Grade 0, SMD 19 L8, L9 2 600 ohm BLM18KG601SN1D MuRata Ferrite Bead, 600 ohm @ 100 MHz, 1.3 A, 0603 20 L10, L11, L12, 4 220 ohm BLM15AG221SN1D MuRata Ferrite Bead, 220 ohm @ 100 MHz, 0.45 A, 0402	3.2x2.5x2.5mm AEC-Q200 0806
17 L5 1 2.2uH TFM201610ALMA2R2MTAA TDK Inductor, Shielded, Metal Composite, 2.2 μH, 1.9 A, 0.152 ohm, Al Grade 0, SMD 18 L6, L7 2 1uH TFM201610ALMA1R0MTAA TDK Inductor, Shielded, Metal Composite, 1 μH, 3.1 A, 0.06 ohm, AEC-Grade 0, SMD 19 L8, L9 2 600 ohm BLM18KG601SN1D MuRata Ferrite Bead, 600 ohm @ 100 MHz, 1.3 A, 0603 20 L10, L11, L12, 4 220 ohm BLM15AG221SN1D MuRata Ferrite Bead, 220 ohm @ 100 MHz, 0.45 A, 0402	AEC-Q200 0806
Grade 0, SMD	
Grade 0, SMD Grade 0, SMD Grade 0, SMD	
20 L10, L11, L12, 4 220 ohm BLM15AG221SN1D MuRata Ferrite Bead, 220 ohm @ 100 MHz, 0.45 A, 0402	C-Q200 0806
	0603
L13 L13	0402
21 P1 1 59S1AC-40MT5-Z Rosenberger Connector, HF, 50 Ohm, TH	Connector, HF, TH
22 R1, R2 2 1.0k RC0603JR-071KL Yageo RES, 1.0 k, 5%, 0.1 W, 0603	0603
23 R3, R6, R7, R8, 8 0 RC0402JR-070RL Yageo America RES, 0, 5%, 0.063 W, 0402 R9, R13, R17, R31	0402
24 R14 1 49.9 RMCF0402FT49R9 Stackpole Electronics Inc RES, 49.9, 1%, 0.063 W, AEC-Q200 Grade 0, 0402	0402
25 R19 1 33 CRCW040233R0JNED Vishay-Dale RES, 33, 5%, 0.063 W, AEC-Q200 Grade 0, 0402	0402
26 R21, R22, R24, 5 10k CRCW040210K0JNED Vishay-Dale RES, 10 k, 5%, 0.063 W, AEC-Q200 Grade 0, 0402	0402
27 R23 1 4.70k RC0402FR-074K7L Yageo America RES, 4.70 k, 1%, 0.0625 W, 0402	0402
28 R25, R26 2 3.3k CRCW04023K30JNED Vishay-Dale RES, 3.3 k, 5%, 0.063 W, AEC-Q200 Grade 0, 0402	0402
29 U1 1 TPS650320QRGEQ1 Texas Instruments Automotive Camera PMIC	VQFN24
30 U2 1 DS90UB933TRTVRQ1 Texas Instruments 12-bit 100 MHz FPD-Link III Serializer for 1MP/60fps and 2MP/30t Cameras, RTV0032A (WQFN-32)	.
31 U3 1 OX01F10-E48Y-1D-Z Omnivision Technologies 1/3.55" color CMOS (1340 x 1020) HDR image sensor	a-CSP48
32 Y1 1 ECS-2018-480-BN ECS Inc. XO, 48.000 MHz, 1.8V, SMD	2.5x0.9x2.0mm
33 C31 0 0.1uF 0402YC104KAT2A AVX CAP, CERM, 0.1 uF, 16 V, +/- 10%, X7R, 0402	0402
34 FID1, FID2, FID3, 0 N/A N/A Fiducial mark. There is nothing to buy or mount. FID4, FID5, FID6	Fiducial
35 R12 0 10.0k RMCF0402FT10K0 Stackpole Electronics Inc RES, 10.0 k, 1%, 0.063 W, AEC-Q200 Grade 0, 0402	
36 R29 0 10k CRCW040210K0JNED Vishay-Dale RES, 10 k, 5%, 0.063 W, AEC-Q200 Grade 0, 0402	0402 0402

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