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|-------------------|--------------|--|------------------|-----------|-----------------|------------|------------------|----------------|-------------------|----------|
| Bill Of N Pos# | /laterials S | NES TST NTSC System Var Designator | iant Value | Tolerance | Nominal Voltage | Dielectric | Footprint | Vendor | Part Number | |
| | 27 | C1, C2, C3, C4, C5, C6, C11, C12, C13, C14, C15, C16, C17, C18, C19, C20, C21, C22, C23, C24, C25, C26, C27, C28, C29, C30, C32 | 100nF | +-20% | 10V | X7R | Cap_0402_Chip | | | |
| | 4 | C7, C8, C9, C10 | 10pF | +-20% | 10V | X7R | Cap_0402_Chip | | | |
| | 3 | C31, C33, C34 | 10nF | +-20% | 10V | X7R | Cap_0402_Chip | | | |
| | 1 | C35 | 1uF | +-20% | 10V | X7R | Cap_0603_Chip | | | |
| | 1 | C36 | 10uF | +-20% | 10V | X7R | Cap_0805_Chip | | | |
| | 1 | C37 | 10uF | +-20% | 25V | X7R | Cap_1206_Chip | | | |
| | 4 | D1, D2, D3, D4 | Schottky Diode | | | | SOD323 | Diodes | BAT54WS-7-F | |
| | 4 | FB1, FB2, FB3, FB4 | 1800Ohm 200mA | | | | Ind_0402_Chip | TDK | MMZ1005S182ET000 | |
| | 1 | IC1 | 10M04SAE144C8G | | | | EQFP-144_A:1P65_ | Intel | 10M08SAE144C8G | |
| 0 | 1 | IC2 | 17.734475 MHz | | | | Quarz 7.5mm | IQD Frequenc | | |
| 1 | 1 | IC3 | TMUX1219 | | | | SOT23-6 | Texas Instrume | | |
| 2 | 1 | IC5 | SN74HCT541 | | | | TSSOP20 Narrow | Texas Instrume | | |
| 3 | 7 | IC6, IC7, IC8, IC9, IC10, IC11, IC12 | LSF0108 | | | | VQFN20 | Texas Instrume | | |
| 4 | 2 | IC13, IC15 | OPA2356 | | | | MSOP8 | Analog Device | | |
| 5 | 1 | IC14 | TMUX1574 | | | | SOT-23THIN16 | Texas Instrume | | |
| 16 | 1 | IC16 | ADV7123 | | | | ST_48_ADI | Analog Devices | | |
| 17 | 1 | IC17 | THS7374 | | | | TSSOP14 | Texas Instrume | | |
| 8 | 1 | IC18 | MCP1703T | | | | SOT223-3 | Microchip | MCP1703T-3302E/DB | |
| 9 | 1 | J2 | 80Pole Connector | | | | DF40C-80DP | Hirose Connec | | |
| 20 | 1 | Q1 | IRLML6402 | | | | SOT23_FET | Diodes | IRLML6402 | |
| 21 | 1 | Q2 | MMBT3904 | | | | SOT23_Transistor | Diodes | MMBT3904 | |
| 2 | 1 | Q3 | BSS138 | | | | SOT23_FET | Infenion | BSS138 | |
| 23 | 6 | R1, R4, R28, R50, R55, R63 | 1k | +-1% | | | Res_0402_Chip | | | |
| 24 | 12 | R2, R3, R5, R17, R18, R19, R41, R42, R43, R58, R66, R78 | 10k | +-1% | | | Res_0402_Chip | | | |
| 25 | 5 | R6, R7, R12, R14, R44 | 470R | +-1% | | | Res_0603_Chip | | | |
| 26 | 4 | R8, R11, R13, R21 | 300R | +-1% | | | Res_0603_Chip | | | |
| 27 | 4 | R9, R49, R54, R60 | 0R | | | | Res_0402_Chip | | | |
| 28 | 2 | R15, R20 | 33R | +-1% | | | Res_0603_Chip | | | |
| 29 | 1 | R16 | 100R | +-1% | | | Res_0603_Chip | | | |
| 30 | 8 | R22, R24, R25, R33, R34, R38, R39, R40 | 1.8k | +-1% | | | Res_0402_Chip | | | |
| 31 | 3 | R23, R26, R27 | 10k | +-1% | | | 1206_Array_Chip | | | |
| 32 | 7 | R29, R30, R31, R32, R35, R36, R37 | 200k | +-1% | | | Res_0402_Chip | | | |
| 3 | 1 | R45 | 1.24k | +-1% | | | Res_0402_Chip | | | |
| 4 | 4 | R46, R52, R57, R65 | 619R | +-1% | | | Res_0402_Chip | | | |
| 5 | 1 | R47 | 91R | +-1% | | | Res_0603_Chip | | | |
| 6 | 4 | R48, R53, R59, R81 | 100k | +-1% | | | Res_0402_Chip | | | |
| 7 | 3 | R51, R56, R64 | 237R | +-1% | | | Res_0402_Chip | | | |
| 8 | 1 | R61 | 470R | +-1% | | | Res_0402_Chip | | | |
| 9 | 1 | R62 | 11R | +-1% | | | Res_0402_Chip | | | |
| 0 | 6 | R67, R68, R69, R70, R77, R79 | 75R | +-1% | | | Res_0603_Chip | | | |
| 1 | 6 | R71, R72, R73, R74, R75, R76 | 75R | +-1% | | | Res_0402_Chip | | | |
| 2 | 3 | R80, R82, R83 | 3.3k | +-1% | | | Res_0402_Chip | | | |
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|-------------|--------------|--|------------------|-----------|-----------------|------------|------------------|----------------|---------------------------------|----------|
| ill Of Mos# | //aterials S | NES TST PAL System Varia Designator | nt Value | Tolerance | Nominal Voltage | Dielectric | Footprint | Vendor | Part Number | |
| <u> </u> | 27 | C1, C2, C3, C4, C5, C6, C11, C12, C13, C14, C15, C16, C17, C18, C19, C20, C21, C22, C23, C24, C25, C26, C27, C28, C29, C30, C32 | 100nF | +-20% | 10V | X7R | Cap_0402_Chip | 33,110 | | |
| | 4 | C7, C8, C9, C10 | 10pF | +-20% | 10V | X7R | Cap_0402_Chip | | | |
| | 3 | C31, C33, C34 | 10nF | +-20% | 10V | X7R | Cap_0402_Chip | | | |
| | 1 | C35 | 1uF | +-20% | 10V | X7R | Cap_0603_Chip | | | |
| | 1 | C36 | 10uF | +-20% | 10V | X7R | Cap_0805_Chip | | | |
| | 1 | C37 | 10uF | +-20% | 25V | X7R | Cap_1206_Chip | | | |
| | 4 | D1, D2, D3, D4 | Schottky Diode | | | | SOD323 | Diodes | BAT54WS-7-F | |
| | 4 | FB1, FB2, FB3, FB4 | 1800Ohm 200mA | | | | Ind_0402_Chip | TDK | MMZ1005S182ET000 | |
| | 1 | IC1 | 10M04SAE144C8G | | | | EQFP-144_A:1P65_ | Intel | 10M08SAE144C8G | |
| 0 | 1 | IC2 | 14.318180 MHz | | | | Quarz 7.5mm | IQD Frequenc | | |
| 1 | 1 | IC3 | TMUX1219 | | | | SOT23-6 | Texas Instrume | | |
| 2 | 1 | IC5 | SN74HCT541 | | | | TSSOP20 Narrow | Texas Instrume | | |
| 3 | 7 | IC6, IC7, IC8, IC9, IC10, IC11, IC12 | LSF0108 | | | | VQFN20 | Texas Instrume | | |
| 4 | 2 | IC13, IC15 | OPA2356 | | | | MSOP8 | Analog Device | | |
| 5 | 1 | IC14 | TMUX1574 | | | | SOT-23THIN16 | Texas Instrume | | |
| 6 | 1 | IC16 | ADV7123 | | | | ST_48_ADI | Analog Devices | | |
| 7 | 1 | IC17 | THS7374 | | | | TSSOP14 | Texas Instrume | | |
| 8 | 1 | IC18 | MCP1703T | | | | SOT223-3 | Microchip | MCP1703T-3302E/DB | |
| 9 | 1 | J2 | 80Pole Connector | | | | DF40C-80DP | Hirose Connec | | |
| 20 | 1 | Q1 | IRLML6402 | | | | SOT23_FET | Diodes | IRLML6402 | |
| 1 | 1 | Q2 | MMBT3904 | | | | SOT23_Transistor | Diodes | MMBT3904 | |
| 2 | 1 | Q3 | BSS138 | 40/ | | | SOT23_FET | Infenion | BSS138 | |
| 3 | 6 | R1, R4, R28, R50, R55, R63 R2, R3, R5, R17, R18, R19, R41, | 1k | +-1% | | | Res_0402_Chip | | | |
| 24 | 12 | R42, R43, R58, R66, R78 | 10k | +-1% | | | Res_0402_Chip | | | |
| 5 | 5 | R6, R7, R12, R14, R44 | 470R | +-1% | | | Res_0603_Chip | | | |
| 6 | 4 | R8, R11, R13, R21 | 300R | +-1% | | | Res_0603_Chip | | | |
| 7 | 4 | R10, R49, R54, R60 | 0R | | | | Res_0402_Chip | | | |
| 28 | 2 | R15, R20 | 33R | +-1% | | | Res_0603_Chip | | | |
| 9 | 1 | R16 | 100R | +-1% | | | Res_0603_Chip | | | |
| 0 | 8 | R22, R24, R25, R33, R34, R38, R39, R40 | 1.8k | +-1% | | | Res_0402_Chip | | | |
| 81 | 3 | R23, R26, R27 | 10k | +-1% | | | 1206_Array_Chip | | | |
| 2 | 7 | R29, R30, R31, R32, R35, R36, R37 | 200k | +-1% | | | Res 0402 Chip | | | |
| 3 | 1 | R45 | 1.24k | +-1% | | | Res_0402_Chip | | | |
| 34 | 4 | R46, R52, R57, R65 | 619R | +-1% | | | Res_0402_Chip | | | |
| 5 | 1 | R47 | 91R | +-1% | | | Res_0603_Chip | | | |
| 6 | 4 | R48, R53, R59, R81 | 100k | +-1% | | | Res_0402_Chip | | | |
| 7 | 3 | R51, R56, R64 | 237R | +-1% | | | Res_0402_Chip | | | |
| 8 | 1 | R61 | 470R | +-1% | | | Res_0402_Chip | | | |
| 9 | 1 | R62 | 11R | +-1% | | | Res_0402_Chip | | | |
| 0 | 6 | R67, R68, R69, R70, R77, R79 | 75R | +-1% | | | Res_0603_Chip | | | |
| 1 2 | 6 | R71, R72, R73, R74, R75, R76 | 75R | +-1% | | | Res_0402_Chip | | | |
| 2 | 3 | R80, R82, R83 | 3.3k | +-1% | | | Res_0402_Chip | | | |
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| | | | | | | | | | Size: A4 Sheet: 6 of 6 Ro | ev: Kev |
| | | | | | | | | | Date: 15/10/2021 Time: 22:25 By | y: Opatu |
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| | Α | | В | | С | | D | | E | |