

PCB BOM



Source Data From: LPCB235__RLOOP__FCU.PrjPCB
 Project: LPCB235__RLOOP__FCU.PrjPCB
 Variant: STANDARD

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| # | Designator | Layer | LDL_NUMBER | Description |
|----|------------|--------|------------|--|
| 1 | C1 | Top | LCA016 | Capacitor, Ceramic Chip, 100nF (0.1uF), 50V, 5%, SMD 0603 [LCA016] |
| 2 | C2 | Top | LCA073 | Capacitor, Ceramic Chip, 100nF (0.1uF), 6.3V, 10%, SMD 0402 [LCA073] |
| 3 | C3 | Top | LCA016 | Capacitor, Ceramic Chip, 100nF (0.1uF), 50V, 5%, SMD 0603 [LCA016] |
| 4 | C4 | Top | LCA016 | Capacitor, Ceramic Chip, 100nF (0.1uF), 50V, 5%, SMD 0603 [LCA016] |
| 5 | C5 | Top | LCA016 | Capacitor, Ceramic Chip, 100nF (0.1uF), 50V, 5%, SMD 0603 [LCA016] |
| 6 | C6 | Top | LCA016 | Capacitor, Ceramic Chip, 100nF (0.1uF), 50V, 5%, SMD 0603 [LCA016] |
| 7 | C7 | Top | LCA016 | Capacitor, Ceramic Chip, 100nF (0.1uF), 50V, 5%, SMD 0603 [LCA016] |
| 8 | C8 | Top | LCA016 | Capacitor, Ceramic Chip, 100nF (0.1uF), 50V, 5%, SMD 0603 [LCA016] |
| 9 | C9 | Top | LCA073 | Capacitor, Ceramic Chip, 100nF (0.1uF), 6.3V, 10%, SMD 0402 [LCA073] |
| 10 | C10 | Top | LCA073 | Capacitor, Ceramic Chip, 100nF (0.1uF), 6.3V, 10%, SMD 0402 [LCA073] |
| 11 | C11 | Bottom | LCA016 | Capacitor, Ceramic Chip, 100nF (0.1uF), 50V, 5%, SMD 0603 [LCA016] |
| 12 | C12 | Bottom | LCA016 | Capacitor, Ceramic Chip, 100nF (0.1uF), 50V, 5%, SMD 0603 [LCA016] |
| 13 | C13 | Bottom | LCA097 | Capacitor, Ceramic Chip, 100uF, 6.3V, X5R, 20%, SMD 1210 [LCA097] |
| 14 | C14_OGA1 | Top | LCA016 | Capacitor, Ceramic Chip, 100nF (0.1uF), 50V, 5%, SMD 0603 [LCA016] |
| 15 | C14_OGA2 | Top | LCA016 | Capacitor, Ceramic Chip, 100nF (0.1uF), 50V, 5%, SMD 0603 [LCA016] |
| 16 | C14_OGA3 | Top | LCA016 | Capacitor, Ceramic Chip, 100nF (0.1uF), 50V, 5%, SMD 0603 [LCA016] |
| 17 | C15 | Bottom | LCA016 | Capacitor, Ceramic Chip, 100nF (0.1uF), 50V, 5%, SMD 0603 [LCA016] |
| 18 | C16 | Bottom | LCA016 | Capacitor, Ceramic Chip, 100nF (0.1uF), 50V, 5%, SMD 0603 [LCA016] |
| 19 | C17 | Bottom | LCA097 | Capacitor, Ceramic Chip, 100uF, 6.3V, X5R, 20%, SMD 1210 [LCA097] |
| 20 | C18 | Top | LCA016 | Capacitor, Ceramic Chip, 100nF (0.1uF), 50V, 5%, SMD 0603 [LCA016] |
| 21 | C19 | Top | LCA073 | Capacitor, Ceramic Chip, 100nF (0.1uF), 6.3V, 10%, SMD 0402 [LCA073] |
| 22 | C20 | Bottom | LCA016 | Capacitor, Ceramic Chip, 100nF (0.1uF), 50V, 5%, SMD 0603 [LCA016] |
| 23 | C21 | Top | LCA016 | Capacitor, Ceramic Chip, 100nF (0.1uF), 50V, 5%, SMD 0603 [LCA016] |
| 24 | C22 | Bottom | LCA016 | Capacitor, Ceramic Chip, 100nF (0.1uF), 50V, 5%, SMD 0603 [LCA016] |
| 25 | C23 | Bottom | LCA016 | Capacitor, Ceramic Chip, 100nF (0.1uF), 50V, 5%, SMD 0603 [LCA016] |
| 26 | C24 | Top | LCA073 | Capacitor, Ceramic Chip, 100nF (0.1uF), 6.3V, 10%, SMD 0402 [LCA073] |
| 27 | C26 | Top | LCA019 | Capacitor, Ceramic Chip, 10pF, 50V, 5%, SMD 0603 [LCA019] |

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| 28 | C27 | Top | LCA019 | Capacitor, Ceramic Chip, 10pF, 50V, 5%, SMD 0603 [LCA019] |
| 29 | C28 | Top | LCA019 | Capacitor, Ceramic Chip, 10pF, 50V, 5%, SMD 0603 [LCA019] |
| 30 | C29 | Bottom | LCA073 | Capacitor, Ceramic Chip, 100nF (0.1uF), 6.3V, 10%, SMD 0402 [LCA073] |
| 31 | C30 | Top | LCA072 | Capacitor, Ceramic Chip, 10nF (0.01uF), 25V, 5%, SMD 0402 [LCA072] |
| 32 | C31 | Bottom | LCA073 | Capacitor, Ceramic Chip, 100nF (0.1uF), 6.3V, 10%, SMD 0402 [LCA073] |
| 33 | C32 | Bottom | LCA073 | Capacitor, Ceramic Chip, 100nF (0.1uF), 6.3V, 10%, SMD 0402 [LCA073] |
| 34 | C33 | Bottom | LCA073 | Capacitor, Ceramic Chip, 100nF (0.1uF), 6.3V, 10%, SMD 0402 [LCA073] |
| 35 | C34 | Bottom | LCA073 | Capacitor, Ceramic Chip, 100nF (0.1uF), 6.3V, 10%, SMD 0402 [LCA073] |
| 36 | C35 | Bottom | LCA073 | Capacitor, Ceramic Chip, 100nF (0.1uF), 6.3V, 10%, SMD 0402 [LCA073] |
| 37 | C36 | Bottom | LCA073 | Capacitor, Ceramic Chip, 100nF (0.1uF), 6.3V, 10%, SMD 0402 [LCA073] |
| 38 | C37 | Bottom | LCA073 | Capacitor, Ceramic Chip, 100nF (0.1uF), 6.3V, 10%, SMD 0402 [LCA073] |
| 39 | C38 | Bottom | LCA073 | Capacitor, Ceramic Chip, 100nF (0.1uF), 6.3V, 10%, SMD 0402 [LCA073] |
| 40 | C39 | Bottom | LCA073 | Capacitor, Ceramic Chip, 100nF (0.1uF), 6.3V, 10%, SMD 0402 [LCA073] |
| 41 | C40 | Bottom | LCA073 | Capacitor, Ceramic Chip, 100nF (0.1uF), 6.3V, 10%, SMD 0402 [LCA073] |
| 42 | C41 | Bottom | LCA073 | Capacitor, Ceramic Chip, 100nF (0.1uF), 6.3V, 10%, SMD 0402 [LCA073] |
| 43 | C42 | Bottom | LCA073 | Capacitor, Ceramic Chip, 100nF (0.1uF), 6.3V, 10%, SMD 0402 [LCA073] |
| 44 | C43 | Bottom | LCA073 | Capacitor, Ceramic Chip, 100nF (0.1uF), 6.3V, 10%, SMD 0402 [LCA073] |
| 45 | C44 | Bottom | LCA073 | Capacitor, Ceramic Chip, 100nF (0.1uF), 6.3V, 10%, SMD 0402 [LCA073] |
| 46 | C45 | Top | LCA097 | Capacitor, Ceramic Chip, 100uF, 6.3V, X5R, 20%, SMD 1210 [LCA097] |
| 47 | C46 | Top | LCA097 | Capacitor, Ceramic Chip, 100uF, 6.3V, X5R, 20%, SMD 1210 [LCA097] |
| 48 | C47 | Bottom | LCA073 | Capacitor, Ceramic Chip, 100nF (0.1uF), 6.3V, 10%, SMD 0402 [LCA073] |
| 49 | C48 | Bottom | LCA073 | Capacitor, Ceramic Chip, 100nF (0.1uF), 6.3V, 10%, SMD 0402 [LCA073] |
| 50 | C49 | Bottom | LCA073 | Capacitor, Ceramic Chip, 100nF (0.1uF), 6.3V, 10%, SMD 0402 [LCA073] |
| 51 | C50 | Bottom | LCA073 | Capacitor, Ceramic Chip, 100nF (0.1uF), 6.3V, 10%, SMD 0402 [LCA073] |
| 52 | C51 | Bottom | LCA073 | Capacitor, Ceramic Chip, 100nF (0.1uF), 6.3V, 10%, SMD 0402 [LCA073] |
| 53 | C52 | Top | LCA097 | Capacitor, Ceramic Chip, 100uF, 6.3V, X5R, 20%, SMD 1210 [LCA097] |
| 54 | C53 | Bottom | LCA073 | Capacitor, Ceramic Chip, 100nF (0.1uF), 6.3V, 10%, SMD 0402 [LCA073] |
| 55 | C54 | Bottom | LCA073 | Capacitor, Ceramic Chip, 100nF (0.1uF), 6.3V, 10%, SMD 0402 [LCA073] |
| 56 | C55 | Bottom | LCA072 | Capacitor, Ceramic Chip, 10nF (0.01uF), 25V, 5%, SMD 0402 [LCA072] |
| 57 | C56 | Bottom | LCA072 | Capacitor, Ceramic Chip, 10nF (0.01uF), 25V, 5%, SMD 0402 [LCA072] |
| 58 | C57 | Bottom | LCA073 | Capacitor, Ceramic Chip, 100nF (0.1uF), 6.3V, 10%, SMD 0402 [LCA073] |
| 59 | C58 | Top | LCA073 | Capacitor, Ceramic Chip, 100nF (0.1uF), 6.3V, 10%, SMD 0402 [LCA073] |
| 60 | C59 | Top | LCA016 | Capacitor, Ceramic Chip, 100nF (0.1uF), 50V, 5%, SMD 0603 [LCA016] |
| 61 | C60 | Top | LCA098 | Capacitor, Ceramic Chip, 1uF, 50V, SMD 0805 [LCA098] |
| 62 | C61 | Top | LCA016 | Capacitor, Ceramic Chip, 100nF (0.1uF), 50V, 5%, SMD 0603 [LCA016] |
| 63 | C62 | Top | LCA016 | Capacitor, Ceramic Chip, 100nF (0.1uF), 50V, 5%, SMD 0603 [LCA016] |
| 64 | C63 | Top | LCA111 | Capacitor, Ceramic Chip, 470pF, 50V, 10% X7R, SMD 0603 [LCA111] |
| 65 | C64 | Top | LCA016 | Capacitor, Ceramic Chip, 100nF (0.1uF), 50V, 5%, SMD 0603 [LCA016] |
| 66 | C65 | Top | LCA016 | Capacitor, Ceramic Chip, 100nF (0.1uF), 50V, 5%, SMD 0603 [LCA016] |

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| 67 | C66 | Top | LCA016 | Capacitor, Ceramic Chip, 100nF (0.1uF), 50V, 5%, SMD 0603 [LCA016] |
| 68 | C67 | Top | LCA016 | Capacitor, Ceramic Chip, 100nF (0.1uF), 50V, 5%, SMD 0603 [LCA016] |
| 69 | C68 | Top | LCA016 | Capacitor, Ceramic Chip, 100nF (0.1uF), 50V, 5%, SMD 0603 [LCA016] |
| 70 | C69 | Top | LCA098 | Capacitor, Ceramic Chip, 1uF, 50V, SMD 0805 [LCA098] |
| 71 | C70 | Top | LCA015 | Capacitor, Ceramic Chip, 1nF (1000pF), 50V, 10%, SMD 0603 [LCA015] |
| 72 | C71 | Top | LCA098 | Capacitor, Ceramic Chip, 1uF, 50V, SMD 0805 [LCA098] |
| 73 | C72 | Bottom | LCA016 | Capacitor, Ceramic Chip, 100nF (0.1uF), 50V, 5%, SMD 0603 [LCA016] |
| 74 | C73 | Top | LCA016 | Capacitor, Ceramic Chip, 100nF (0.1uF), 50V, 5%, SMD 0603 [LCA016] |
| 75 | C74 | Top | LCA098 | Capacitor, Ceramic Chip, 1uF, 50V, SMD 0805 [LCA098] |
| 76 | C75 | Bottom | LCA016 | Capacitor, Ceramic Chip, 100nF (0.1uF), 50V, 5%, SMD 0603 [LCA016] |
| 77 | C76 | Top | LCA016 | Capacitor, Ceramic Chip, 100nF (0.1uF), 50V, 5%, SMD 0603 [LCA016] |
| 78 | C77 | Bottom | LCA016 | Capacitor, Ceramic Chip, 100nF (0.1uF), 50V, 5%, SMD 0603 [LCA016] |
| 79 | C78 | Bottom | LCA016 | Capacitor, Ceramic Chip, 100nF (0.1uF), 50V, 5%, SMD 0603 [LCA016] |
| 80 | C79 | Top | LCA016 | Capacitor, Ceramic Chip, 100nF (0.1uF), 50V, 5%, SMD 0603 [LCA016] |
| 81 | C80 | Bottom | LCA016 | Capacitor, Ceramic Chip, 100nF (0.1uF), 50V, 5%, SMD 0603 [LCA016] |
| 82 | C81 | Bottom | LCA016 | Capacitor, Ceramic Chip, 100nF (0.1uF), 50V, 5%, SMD 0603 [LCA016] |
| 83 | C82 | Bottom | LCA016 | Capacitor, Ceramic Chip, 100nF (0.1uF), 50V, 5%, SMD 0603 [LCA016] |
| 84 | C83 | Top | LCA016 | Capacitor, Ceramic Chip, 100nF (0.1uF), 50V, 5%, SMD 0603 [LCA016] |
| 85 | C84 | Bottom | LCA016 | Capacitor, Ceramic Chip, 100nF (0.1uF), 50V, 5%, SMD 0603 [LCA016] |
| 86 | C85 | Bottom | LCA016 | Capacitor, Ceramic Chip, 100nF (0.1uF), 50V, 5%, SMD 0603 [LCA016] |
| 87 | C86 | Bottom | LCA016 | Capacitor, Ceramic Chip, 100nF (0.1uF), 50V, 5%, SMD 0603 [LCA016] |
| 88 | C87 | Top | LCA073 | Capacitor, Ceramic Chip, 100nF (0.1uF), 6.3V, 10%, SMD 0402 [LCA073] |
| 89 | C88 | Top | LCA016 | Capacitor, Ceramic Chip, 100nF (0.1uF), 50V, 5%, SMD 0603 [LCA016] |
| 90 | C89 | Bottom | LCA073 | Capacitor, Ceramic Chip, 100nF (0.1uF), 6.3V, 10%, SMD 0402 [LCA073] |
| 91 | C90 | Bottom | LCA016 | Capacitor, Ceramic Chip, 100nF (0.1uF), 50V, 5%, SMD 0603 [LCA016] |
| 92 | C91 | Bottom | LCA016 | Capacitor, Ceramic Chip, 100nF (0.1uF), 50V, 5%, SMD 0603 [LCA016] |
| 93 | C92 | Bottom | LCA016 | Capacitor, Ceramic Chip, 100nF (0.1uF), 50V, 5%, SMD 0603 [LCA016] |
| 94 | C93 | Bottom | LCA016 | Capacitor, Ceramic Chip, 100nF (0.1uF), 50V, 5%, SMD 0603 [LCA016] |
| 95 | C94 | Bottom | LCA016 | Capacitor, Ceramic Chip, 100nF (0.1uF), 50V, 5%, SMD 0603 [LCA016] |
| 96 | C95 | Top | LCA073 | Capacitor, Ceramic Chip, 100nF (0.1uF), 6.3V, 10%, SMD 0402 [LCA073] |
| 97 | C98 | Top | LCA016 | Capacitor, Ceramic Chip, 100nF (0.1uF), 50V, 5%, SMD 0603 [LCA016] |
| 98 | C99 | Top | LCA016 | Capacitor, Ceramic Chip, 100nF (0.1uF), 50V, 5%, SMD 0603 [LCA016] |
| 99 | C100 | Top | LCA016 | Capacitor, Ceramic Chip, 100nF (0.1uF), 50V, 5%, SMD 0603 [LCA016] |
| 100 | C101 | Top | LCA016 | Capacitor, Ceramic Chip, 100nF (0.1uF), 50V, 5%, SMD 0603 [LCA016] |
| 101 | C102 | Top | LCA016 | Capacitor, Ceramic Chip, 100nF (0.1uF), 50V, 5%, SMD 0603 [LCA016] |
| 102 | C103 | Top | LCA016 | Capacitor, Ceramic Chip, 100nF (0.1uF), 50V, 5%, SMD 0603 [LCA016] |
| 103 | C104 | Top | LCA016 | Capacitor, Ceramic Chip, 100nF (0.1uF), 50V, 5%, SMD 0603 [LCA016] |
| 104 | C105 | Top | LCA016 | Capacitor, Ceramic Chip, 100nF (0.1uF), 50V, 5%, SMD 0603 [LCA016] |
| 105 | C108 | Top | LCA016 | Capacitor, Ceramic Chip, 100nF (0.1uF), 50V, 5%, SMD 0603 [LCA016] |

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| 106 | C109 | Top | LCA016 | Capacitor, Ceramic Chip, 100nF (0.1uF), 50V, 5%, SMD 0603 [LCA016] |
| 107 | C110 | Top | LCA016 | Capacitor, Ceramic Chip, 100nF (0.1uF), 50V, 5%, SMD 0603 [LCA016] |
| 108 | C111 | Top | LCA016 | Capacitor, Ceramic Chip, 100nF (0.1uF), 50V, 5%, SMD 0603 [LCA016] |
| 109 | C112_OGB1 | Top | LCA016 | Capacitor, Ceramic Chip, 100nF (0.1uF), 50V, 5%, SMD 0603 [LCA016] |
| 110 | C112_OGB2 | Top | LCA016 | Capacitor, Ceramic Chip, 100nF (0.1uF), 50V, 5%, SMD 0603 [LCA016] |
| 111 | C112_OGB3 | Top | LCA016 | Capacitor, Ceramic Chip, 100nF (0.1uF), 50V, 5%, SMD 0603 [LCA016] |
| 112 | C113 | Top | LCA016 | Capacitor, Ceramic Chip, 100nF (0.1uF), 50V, 5%, SMD 0603 [LCA016] |
| 113 | C114 | Top | LCA016 | Capacitor, Ceramic Chip, 100nF (0.1uF), 50V, 5%, SMD 0603 [LCA016] |
| 114 | C115 | Top | LCA016 | Capacitor, Ceramic Chip, 100nF (0.1uF), 50V, 5%, SMD 0603 [LCA016] |
| 115 | C116 | Top | LCA016 | Capacitor, Ceramic Chip, 100nF (0.1uF), 50V, 5%, SMD 0603 [LCA016] |
| 116 | C117 | Top | LCA016 | Capacitor, Ceramic Chip, 100nF (0.1uF), 50V, 5%, SMD 0603 [LCA016] |
| 117 | C118 | Top | LCA016 | Capacitor, Ceramic Chip, 100nF (0.1uF), 50V, 5%, SMD 0603 [LCA016] |
| 118 | C119 | Top | LCA073 | Capacitor, Ceramic Chip, 100nF (0.1uF), 6.3V, 10%, SMD 0402 [LCA073] |
| 119 | C120 | Bottom | LCA016 | Capacitor, Ceramic Chip, 100nF (0.1uF), 50V, 5%, SMD 0603 [LCA016] |
| 120 | C121 | Bottom | LCA016 | Capacitor, Ceramic Chip, 100nF (0.1uF), 50V, 5%, SMD 0603 [LCA016] |
| 121 | C122 | Bottom | LCA016 | Capacitor, Ceramic Chip, 100nF (0.1uF), 50V, 5%, SMD 0603 [LCA016] |
| 122 | C123 | Bottom | LCA016 | Capacitor, Ceramic Chip, 100nF (0.1uF), 50V, 5%, SMD 0603 [LCA016] |
| 123 | C124 | Bottom | LCA016 | Capacitor, Ceramic Chip, 100nF (0.1uF), 50V, 5%, SMD 0603 [LCA016] |
| 124 | C125 | Bottom | LCA016 | Capacitor, Ceramic Chip, 100nF (0.1uF), 50V, 5%, SMD 0603 [LCA016] |
| 125 | C126 | Top | LCA093 | Capacitor, Ceramic Chip, 4.7uF, 25V, 10%, SMD 0805 [LCA093] |
| 126 | C128_TH1 | Top | LCA152 | Capacitor, Ceramic Chip, 1uF, 50V, 10% (X5R), SMD 0603 [LCA152] |
| 127 | C128_TH2 | Top | LCA152 | Capacitor, Ceramic Chip, 1uF, 50V, 10% (X5R), SMD 0603 [LCA152] |
| 128 | C128_TH3 | Top | LCA152 | Capacitor, Ceramic Chip, 1uF, 50V, 10% (X5R), SMD 0603 [LCA152] |
| 129 | C128_TH4 | Top | LCA152 | Capacitor, Ceramic Chip, 1uF, 50V, 10% (X5R), SMD 0603 [LCA152] |
| 130 | C128_TH5 | Top | LCA152 | Capacitor, Ceramic Chip, 1uF, 50V, 10% (X5R), SMD 0603 [LCA152] |
| 131 | C128_TH6 | Top | LCA152 | Capacitor, Ceramic Chip, 1uF, 50V, 10% (X5R), SMD 0603 [LCA152] |
| 132 | C128_TH7 | Top | LCA152 | Capacitor, Ceramic Chip, 1uF, 50V, 10% (X5R), SMD 0603 [LCA152] |
| 133 | C128_TH8 | Top | LCA152 | Capacitor, Ceramic Chip, 1uF, 50V, 10% (X5R), SMD 0603 [LCA152] |
| 134 | C129_TH1 | Top | LCA016 | Capacitor, Ceramic Chip, 100nF (0.1uF), 50V, 5%, SMD 0603 [LCA016] |
| 135 | C129_TH2 | Top | LCA016 | Capacitor, Ceramic Chip, 100nF (0.1uF), 50V, 5%, SMD 0603 [LCA016] |
| 136 | C129_TH3 | Top | LCA016 | Capacitor, Ceramic Chip, 100nF (0.1uF), 50V, 5%, SMD 0603 [LCA016] |
| 137 | C129_TH4 | Top | LCA016 | Capacitor, Ceramic Chip, 100nF (0.1uF), 50V, 5%, SMD 0603 [LCA016] |
| 138 | C129_TH5 | Top | LCA016 | Capacitor, Ceramic Chip, 100nF (0.1uF), 50V, 5%, SMD 0603 [LCA016] |
| 139 | C129_TH6 | Top | LCA016 | Capacitor, Ceramic Chip, 100nF (0.1uF), 50V, 5%, SMD 0603 [LCA016] |
| 140 | C129_TH7 | Top | LCA016 | Capacitor, Ceramic Chip, 100nF (0.1uF), 50V, 5%, SMD 0603 [LCA016] |
| 141 | C129_TH8 | Top | LCA016 | Capacitor, Ceramic Chip, 100nF (0.1uF), 50V, 5%, SMD 0603 [LCA016] |
| 142 | C130 | Top | LCA016 | Capacitor, Ceramic Chip, 100nF (0.1uF), 50V, 5%, SMD 0603 [LCA016] |
| 143 | C131 | Top | LCA016 | Capacitor, Ceramic Chip, 100nF (0.1uF), 50V, 5%, SMD 0603 [LCA016] |
| 144 | C132 | Top | LCA016 | Capacitor, Ceramic Chip, 100nF (0.1uF), 50V, 5%, SMD 0603 [LCA016] |

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| 145 | C133 | Top | LCA016 | Capacitor, Ceramic Chip, 100nF (0.1uF), 50V, 5%, SMD 0603 [LCA016] |
| 146 | C134_TH1 | Top | LCA016 | Capacitor, Ceramic Chip, 100nF (0.1uF), 50V, 5%, SMD 0603 [LCA016] |
| 147 | C134_TH2 | Top | LCA016 | Capacitor, Ceramic Chip, 100nF (0.1uF), 50V, 5%, SMD 0603 [LCA016] |
| 148 | C134_TH3 | Top | LCA016 | Capacitor, Ceramic Chip, 100nF (0.1uF), 50V, 5%, SMD 0603 [LCA016] |
| 149 | C134_TH4 | Top | LCA016 | Capacitor, Ceramic Chip, 100nF (0.1uF), 50V, 5%, SMD 0603 [LCA016] |
| 150 | C134_TH5 | Top | LCA016 | Capacitor, Ceramic Chip, 100nF (0.1uF), 50V, 5%, SMD 0603 [LCA016] |
| 151 | C134_TH6 | Top | LCA016 | Capacitor, Ceramic Chip, 100nF (0.1uF), 50V, 5%, SMD 0603 [LCA016] |
| 152 | C134_TH7 | Top | LCA016 | Capacitor, Ceramic Chip, 100nF (0.1uF), 50V, 5%, SMD 0603 [LCA016] |
| 153 | C134_TH8 | Top | LCA016 | Capacitor, Ceramic Chip, 100nF (0.1uF), 50V, 5%, SMD 0603 [LCA016] |
| 154 | C137 | Top | LCA016 | Capacitor, Ceramic Chip, 100nF (0.1uF), 50V, 5%, SMD 0603 [LCA016] |
| 155 | C138 | Bottom | LCA016 | Capacitor, Ceramic Chip, 100nF (0.1uF), 50V, 5%, SMD 0603 [LCA016] |
| 156 | C139 | Bottom | LCA016 | Capacitor, Ceramic Chip, 100nF (0.1uF), 50V, 5%, SMD 0603 [LCA016] |
| 157 | C140 | Bottom | LCA016 | Capacitor, Ceramic Chip, 100nF (0.1uF), 50V, 5%, SMD 0603 [LCA016] |
| 158 | C141_ML1 | Top | LCA019 | Capacitor, Ceramic Chip, 10pF, 50V, 5%, SMD 0603 [LCA019] |
| 159 | C141_ML2 | Top | LCA019 | Capacitor, Ceramic Chip, 10pF, 50V, 5%, SMD 0603 [LCA019] |
| 160 | C142_ML1 | Top | LCA016 | Capacitor, Ceramic Chip, 100nF (0.1uF), 50V, 5%, SMD 0603 [LCA016] |
| 161 | C142_ML2 | Top | LCA016 | Capacitor, Ceramic Chip, 100nF (0.1uF), 50V, 5%, SMD 0603 [LCA016] |
| 162 | C143 | Top | LCA016 | Capacitor, Ceramic Chip, 100nF (0.1uF), 50V, 5%, SMD 0603 [LCA016] |
| 163 | C144 | Top | LCA016 | Capacitor, Ceramic Chip, 100nF (0.1uF), 50V, 5%, SMD 0603 [LCA016] |
| 164 | C145 | Top | LCA016 | Capacitor, Ceramic Chip, 100nF (0.1uF), 50V, 5%, SMD 0603 [LCA016] |
| 165 | C146 | Top | LCA016 | Capacitor, Ceramic Chip, 100nF (0.1uF), 50V, 5%, SMD 0603 [LCA016] |
| 166 | C147 | Top | LCA016 | Capacitor, Ceramic Chip, 100nF (0.1uF), 50V, 5%, SMD 0603 [LCA016] |
| 167 | C148 | Top | LCA016 | Capacitor, Ceramic Chip, 100nF (0.1uF), 50V, 5%, SMD 0603 [LCA016] |
| 168 | CE1 | Top | LCA071 | Capacitor, Aluminum Electrolytic, 330uF, 35V, 20%, SMD (10mm x 10mm) [LCA071] |
| 169 | CE4 | Top | LCA071 | Capacitor, Aluminum Electrolytic, 330uF, 35V, 20%, SMD (10mm x 10mm) |
| 170 | CE5 | Top | LCA071 | Capacitor, Aluminum Electrolytic, 330uF, 35V, 20%, SMD (10mm x 10mm) |
| 171 | CN1 | Top | LCN249 | Connector, Molex CMC, Automotive Socket, 80 Circuits, 2 Pockets |
| 172 | CN3 | Top | LCN249 | Connector, Molex CMC, Automotive Socket, 80 Circuits, 2 Pockets |
| 173 | CT1 | Bottom | LCA039 | Capacitor, Tantalum, 22uF, 16V, 10%, SMD TC3528 (BCASE) [LCA039] |
| 174 | CT2 | Bottom | LCA039 | Capacitor, Tantalum, 22uF, 16V, 10%, SMD TC3528 (BCASE) [LCA039] |
| 175 | CT3 | Top | LCA039 | Capacitor, Tantalum, 22uF, 16V, 10%, SMD TC3528 (BCASE) [LCA039] |
| 176 | CT6 | Top | LCA039 | Capacitor, Tantalum, 22uF, 16V, 10%, SMD TC3528 (BCASE) [LCA039] |
| 177 | CT7 | Top | LCA039 | Capacitor, Tantalum, 22uF, 16V, 10%, SMD TC3528 (BCASE) [LCA039] |
| 178 | CT8 | Top | LCA039 | Capacitor, Tantalum, 22uF, 16V, 10%, SMD TC3528 (BCASE) [LCA039] |
| 179 | CT9 | Top | LCA039 | Capacitor, Tantalum, 22uF, 16V, 10%, SMD TC3528 (BCASE) [LCA039] |
| 180 | CT10 | Top | LCA039 | Capacitor, Tantalum, 22uF, 16V, 10%, SMD TC3528 (BCASE) [LCA039] |
| 181 | CT11 | Top | LCA039 | Capacitor, Tantalum, 22uF, 16V, 10%, SMD TC3528 (BCASE) [LCA039] |
| 182 | CT12 | Top | LCA039 | Capacitor, Tantalum, 22uF, 16V, 10%, SMD TC3528 (BCASE) [LCA039] |
| 183 | CT13 | Bottom | LCA039 | Capacitor, Tantalum, 22uF, 16V, 10%, SMD TC3528 (BCASE) [LCA039] |

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| 184 | CT14 | Top | LCA039 | Capacitor, Tantalum, 22uF, 16V, 10%, SMD TC3528 (BCASE) [LCA039] |
| 185 | D1 | Bottom | LIC345 | Diode, Small Signal, SMD SOD-323F [LIC345] |
| 186 | D2 | Bottom | LIC345 | Diode, Small Signal, SMD SOD-323F [LIC345] |
| 187 | D3 | Bottom | LIC189 | Diode, General Purpose Rectifier, 3A, 200V, SMD DO-214AB [LIC189] |
| 188 | D4 | Top | LIC189 | Diode, General Purpose Rectifier, 3A, 200V, SMD DO-214AB [LIC189] |
| 189 | D5 | Top | LIC367 | Diode, Schottky Rectifier, 60V, 1A, SMD DO-214AC [LIC367] |
| 190 | D6 | Bottom | LIC345 | Diode, Small Signal, SMD SOD-323F [LIC345] |
| 191 | D7 | Bottom | LIC345 | Diode, Small Signal, SMD SOD-323F [LIC345] |
| 192 | D9 | Bottom | LIC189 | Diode, General Purpose Rectifier, 3A, 200V, SMD DO-214AB [LIC189] |
| 193 | D10 | Bottom | LIC006 | Diode, Small Signal, 0.2A, 85V, SMD SOT-23 [LIC006] |
| 194 | D11 | Bottom | LIC345 | Diode, Small Signal, SMD SOD-323F [LIC345] |
| 195 | D12 | Bottom | LIC345 | Diode, Small Signal, SMD SOD-323F [LIC345] |
| 196 | D17 | Bottom | LIC345 | Diode, Small Signal, SMD SOD-323F [LIC345] |
| 197 | IC1 | Top | LIC393 | IC, Accelerometer, 3-Axis, 3.3V, I2C, SMD QFN16 [LIC393] |
| 198 | IC2 | Bottom | LIC233 | IC, Voltage Regulator, 400mA, 3.3V LDO, SMD DPAK [LIC233] |
| 199 | IC3_OGA1 | Top | LIC542 | IC, RS422 Tx Rx, SMD SOIC 8 |
| 200 | IC3_OGA2 | Top | LIC542 | IC, RS422 Tx Rx, SMD SOIC 8 |
| 201 | IC3_OGA3 | Top | LIC542 | IC, RS422 Tx Rx, SMD SOIC 8 |
| 202 | IC4 | Top | LIC105 | IC, High Speed CAN Transceiver, SMD SOIC8 [LIC105] |
| 203 | IC5 | Top | LIC472 | IC, SPI to UART bridge [LIC472] |
| 204 | IC6 | Top | LIC393 | IC, Accelerometer, 3-Axis, 3.3V, I2C, SMD QFN16 [LIC393] |
| 205 | IC7 | Top | LIC472 | IC, SPI to UART bridge [LIC472] |
| 206 | IC8 | Top | LIC472 | IC, SPI to UART bridge [LIC472] |
| 207 | IC9 | Top | LIC472 | IC, SPI to UART bridge [LIC472] |
| 208 | IC10 | Bottom | LIC328 | IC, Voltage Regulator, 400mA, 5V LDO, SMD DPAK [LIC328] |
| 209 | IC11 | Top | LIC472 | IC, SPI to UART bridge [LIC472] |
| 210 | IC12 | Top | LIC016 | LED, SMD, 0805 Green [LIC016] |
| 211 | IC13 | Top | LIC508 | IC, Oscillator Module, 1.8432MHz, 3.3V, SMD [LIC508] |
| 212 | IC14 | Top | LIC278 | IC, CPU, RM48 Safety CPU, SMD NFBGA337 [LIC278] |
| 213 | IC15 | Top | LIC016 | LED, SMD, 0805 Green [LIC016] |
| 214 | IC16 | Top | LIC364 | IC, Power Management IC, SMD [LIC364] |
| 215 | IC17 | Top | LIC289 | IC, SPI IO Expander, 16bit, SMD SSOP28 [LIC289] |
| 216 | IC18 | Bottom | LIC543 | IC, RS485 Isolator, SMD SOIC 16 [LIC543] |
| 217 | IC19 | Bottom | LIC233 | IC, Voltage Regulator, 400mA, 3.3V LDO, SMD DPAK [LIC233] |
| 218 | IC20 | Bottom | LIC328 | IC, Voltage Regulator, 400mA, 5V LDO, SMD DPAK [LIC328] |
| 219 | IC21 | Top | LIC472 | IC, SPI to UART bridge [LIC472] |
| 220 | IC22 | Top | LIC472 | IC, SPI to UART bridge [LIC472] |
| 221 | IC23 | Top | LIC165 | IC, RS232 Line Driver, 3.3V, SMD TSSOP16 [LIC165] |
| 222 | IC24 | Top | LIC165 | IC, RS232 Line Driver, 3.3V, SMD TSSOP16 [LIC165] |

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| 223 | IC25 | Bottom | LIC543 | IC, RS485 Isolator, SMD SOIC 16 [LIC543] |
| 224 | IC26 | Bottom | LIC543 | IC, RS485 Isolator, SMD SOIC 16 [LIC543] |
| 225 | IC27 | Top | LIC374 | IC, Ethernet Transceiver, Precision Real Time Protocol, SMD LQFP48 [LIC374] |
| 226 | IC28 | Bottom | LIC543 | IC, RS485 Isolator, SMD SOIC 16 [LIC543] |
| 227 | IC29 | Bottom | LIC543 | IC, RS485 Isolator, SMD SOIC 16 [LIC543] |
| 228 | IC30 | Bottom | LIC543 | IC, RS485 Isolator, SMD SOIC 16 [LIC543] |
| 229 | IC31 | Bottom | LIC543 | IC, RS485 Isolator, SMD SOIC 16 [LIC543] |
| 230 | IC32_OGB1 | Top | LIC542 | IC, RS422 Tx Rx, SMD SOIC 8 |
| 231 | IC32_OGB2 | Top | LIC542 | IC, RS422 Tx Rx, SMD SOIC 8 |
| 232 | IC32_OGB3 | Top | LIC542 | IC, RS422 Tx Rx, SMD SOIC 8 |
| 233 | IC33 | Top | LIC472 | IC, SPI to UART bridge [LIC472] |
| 234 | IC34 | Top | LIC388 | IC, Oscillator Module, 25MHz, 3.3V, SMD [LIC388] |
| 235 | IC35 | Top | LIC165 | IC, RS232 Line Driver, 3.3V, SMD TSSOP16 [LIC165] |
| 236 | IC36 | Top | LIC160 | IC, Hex Inveter, Schmitt Trigger, SMD [LIC160] |
| 237 | IC37 | Top | LIC550 | IC, ADC / DAC, SMD [LIC550] |
| 238 | IC38_TH1 | Top | LIC549 | IC, Isolation Amplifier, SMD SOIC8 [LIC549] |
| 239 | IC38_TH2 | Top | LIC549 | IC, Isolation Amplifier, SMD SOIC8 [LIC549] |
| 240 | IC38_TH3 | Top | LIC549 | IC, Isolation Amplifier, SMD SOIC8 [LIC549] |
| 241 | IC38_TH4 | Top | LIC549 | IC, Isolation Amplifier, SMD SOIC8 [LIC549] |
| 242 | IC38_TH5 | Top | LIC549 | IC, Isolation Amplifier, SMD SOIC8 [LIC549] |
| 243 | IC38_TH6 | Top | LIC549 | IC, Isolation Amplifier, SMD SOIC8 [LIC549] |
| 244 | IC38_TH7 | Top | LIC549 | IC, Isolation Amplifier, SMD SOIC8 [LIC549] |
| 245 | IC38_TH8 | Top | LIC549 | IC, Isolation Amplifier, SMD SOIC8 [LIC549] |
| 246 | IC39_TH1 | Top | LIC570 | IC, OpAmp, 1-Channel, Low Noise, SMD SOT-23-5 [LIC570] |
| 247 | IC39_TH2 | Top | LIC570 | IC, OpAmp, 1-Channel, Low Noise, SMD SOT-23-5 [LIC570] |
| 248 | IC39_TH3 | Top | LIC570 | IC, OpAmp, 1-Channel, Low Noise, SMD SOT-23-5 [LIC570] |
| 249 | IC39_TH4 | Top | LIC570 | IC, OpAmp, 1-Channel, Low Noise, SMD SOT-23-5 [LIC570] |
| 250 | IC39_TH5 | Top | LIC570 | IC, OpAmp, 1-Channel, Low Noise, SMD SOT-23-5 [LIC570] |
| 251 | IC39_TH6 | Top | LIC570 | IC, OpAmp, 1-Channel, Low Noise, SMD SOT-23-5 [LIC570] |
| 252 | IC39_TH7 | Top | LIC570 | IC, OpAmp, 1-Channel, Low Noise, SMD SOT-23-5 [LIC570] |
| 253 | IC39_TH8 | Top | LIC570 | IC, OpAmp, 1-Channel, Low Noise, SMD SOT-23-5 [LIC570] |
| 254 | IC40 | Bottom | LIC543 | IC, RS485 Isolator, SMD SOIC 16 [LIC543] |
| 255 | IC42 | Top | LIC580 | IC, Watchdog, SMD [LIC580] |
| 256 | IC43 | Top | LIC165 | IC, RS232 Line Driver, 3.3V, SMD TSSOP16 [LIC165] |
| 257 | IC45 | Bottom | LIC233 | IC, Voltage Regulator, 400mA, 3.3V LDO, SMD DPAK [LIC233] |
| 258 | IC46 | Top | LIC525 | IC, Multiplexer Select 2-1 [LIC525] |
| 259 | IC47_ML1 | Top | LIC570 | IC, OpAmp, 1-Channel, Low Noise, SMD SOT-23-5 [LIC570] |
| 260 | IC47_ML2 | Top | LIC570 | IC, OpAmp, 1-Channel, Low Noise, SMD SOT-23-5 [LIC570] |
| 261 | IC48_ML1 | Top | LIC547 | Diode, Zener, 3.6V, 0.225W, SMD [LIC083] |

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| 262 | IC48_ML2 | Top | LIC547 | Diode, Zener, 3.6V, 0.225W, SMD [LIC083] |
| 263 | IC49 | Top | LIC292 | IC, Relay Driver, 28V Industrial, SMD SOT23 [LIC292] |
| 264 | IC50 | Top | LIC336 | IC, Logic OR Gate, Single 2 Input, SMD SOT353 [LIC336] |
| 265 | IC51 | Top | LIC336 | IC, Logic OR Gate, Single 2 Input, SMD SOT353 [LIC336] |
| 266 | IC52 | Top | LIC165 | IC, RS232 Line Driver, 3.3V, SMD TSSOP16 |
| 267 | L1 | Top | LIN017 | Ferrite, EMI/RFI Suppression, SMD 0805 [LIN017] |
| 268 | L2 | Top | LIN031 | Inductor, 10uH, 20%, 5.7A, SMD [LIN031] |
| 269 | L3 | Top | LIN032 | Transformer, Signal Transformers, SMD [LIN032] |
| 270 | L4 | Top | LIN031 | Inductor, 10uH, 20%, 5.7A, SMD [LIN031] |
| 271 | PW2 | Top | LPW030 | Non Isolated DC/DC Module |
| 272 | Q1 | Top | LIC366 | Transistor, NPN, 20V 8A 770mW 95MHz, SMD [LIC366] |
| 273 | Q2 | Top | LIC366 | Transistor, NPN, 20V 8A 770mW 95MHz, SMD [LIC366] |
| 274 | R1 | Bottom | LRE030 | Resistor, Ceramic Chip, 10K, 0.1W, 1%, SMD 0603 [LRE030] |
| 275 | R2 | Bottom | LRE030 | Resistor, Ceramic Chip, 10K, 0.1W, 1%, SMD 0603 [LRE030] |
| 276 | R3 | Bottom | LRE077 | Resistor, Ceramic Chip, 121R, 0.33W, 1%, SMD 1210 [LRE077] |
| 277 | R4 | Top | LRE037 | Resistor, Ceramic Chip, 47R, 0.1W, 1%, SMD 0603 [LRE037] |
| 278 | R5 | Bottom | LRE027 | Resistor, Ceramic Chip, 2.2K, 0.1W, 1%, SMD 0603 [LRE027] |
| 279 | R6 | Top | LRE027 | Resistor, Ceramic Chip, 2.2K, 0.1W, 1%, SMD 0603 [LRE027] |
| 280 | R7 | Bottom | LRE030 | Resistor, Ceramic Chip, 10K, 0.1W, 1%, SMD 0603 [LRE030] |
| 281 | R8 | Bottom | LRE030 | Resistor, Ceramic Chip, 10K, 0.1W, 1%, SMD 0603 [LRE030] |
| 282 | R9 | Top | LRE030 | Resistor, Ceramic Chip, 10K, 0.1W, 1%, SMD 0603 [LRE030] |
| 283 | R10 | Top | LRE027 | Resistor, Ceramic Chip, 2.2K, 0.1W, 1%, SMD 0603 [LRE027] |
| 284 | R11 | Top | LRE058 | Resistor, Ceramic Chip, 4K7, 0.1W, 1%, SMD 0603 [LRE058] |
| 285 | R12 | Top | LRE030 | Resistor, Ceramic Chip, 10K, 0.1W, 1%, SMD 0603 [LRE030] |
| 286 | R13 | Top | LRE037 | Resistor, Ceramic Chip, 47R, 0.1W, 1%, SMD 0603 [LRE037] |
| 287 | R14 | Top | LRE037 | Resistor, Ceramic Chip, 47R, 0.1W, 1%, SMD 0603 [LRE037] |
| 288 | R15 | Top | LRE037 | Resistor, Ceramic Chip, 47R, 0.1W, 1%, SMD 0603 [LRE037] |
| 289 | R16 | Bottom | LRE030 | Resistor, Ceramic Chip, 10K, 0.1W, 1%, SMD 0603 [LRE030] |
| 290 | R17 | Top | LRE030 | Resistor, Ceramic Chip, 10K, 0.1W, 1%, SMD 0603 [LRE030] |
| 291 | R18 | Top | LRE030 | Resistor, Ceramic Chip, 10K, 0.1W, 1%, SMD 0603 [LRE030] |
| 292 | R19 | Bottom | LRE030 | Resistor, Ceramic Chip, 10K, 0.1W, 1%, SMD 0603 [LRE030] |
| 293 | R20 | Bottom | LRE030 | Resistor, Ceramic Chip, 10K, 0.1W, 1%, SMD 0603 [LRE030] |
| 294 | R21_OGA1 | Top | LRE190 | Resistor, Thick Film, 120R, 0.25W, 5%, SMD 0805 [LRE190] |
| 295 | R21_OGA2 | Top | LRE190 | Resistor, Thick Film, 120R, 0.25W, 5%, SMD 0805 [LRE190] |
| 296 | R21_OGA3 | Top | LRE190 | Resistor, Thick Film, 120R, 0.25W, 5%, SMD 0805 [LRE190] |
| 297 | R22_ML1 | Top | LRE228 | Resistor, Ceramic Chip, 162R, 0.33W, 1%, SMD 1210 [LRE228] |
| 298 | R22_ML2 | Top | LRE228 | Resistor, Ceramic Chip, 162R, 0.33W, 1%, SMD 1210 [LRE228] |
| 299 | R23 | Top | LRE120 | Resistor, Ceramic Chip, 30K, 0.1W, 1%, SMD 0603 [LRE120] |
| 300 | R24 | Bottom | LRE030 | Resistor, Ceramic Chip, 10K, 0.1W, 1%, SMD 0603 [LRE030] |

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| 301 | R25 | Top | LRE030 | Resistor, Ceramic Chip, 10K, 0.1W, 1%, SMD 0603 [LRE030] |
| 302 | R26 | Top | LRE120 | Resistor, Ceramic Chip, 30K, 0.1W, 1%, SMD 0603 [LRE120] |
| 303 | R27 | Top | LRE176 | Resistor, Ceramic Chip, 18K, 0.1W, 1%, SMD 0603 [LRE176] |
| 304 | R28 | Top | LRE120 | Resistor, Ceramic Chip, 30K, 0.1W, 1%, SMD 0603 [LRE120] |
| 305 | R29 | Top | LRE028 | Resistor, Ceramic Chip, 5.6K, 0.1W, 1%, SMD 0603 [LRE028] |
| 306 | R30 | Bottom | LRE030 | Resistor, Ceramic Chip, 10K, 0.1W, 1%, SMD 0603 [LRE030] |
| 307 | R31 | Top | LRE030 | Resistor, Ceramic Chip, 10K, 0.1W, 1%, SMD 0603 [LRE030] |
| 308 | R32 | Top | LRE030 | Resistor, Ceramic Chip, 10K, 0.1W, 1%, SMD 0603 [LRE030] |
| 309 | R33 | Bottom | LRE106 | Resistor, Ceramic Chip, 1K0, 0.063W, 1%, SMD 0603 [LRE106] |
| 310 | R34 | Bottom | LRE106 | Resistor, Ceramic Chip, 1K0, 0.063W, 1%, SMD 0603 [LRE106] |
| 311 | R35 | Top | LRE106 | Resistor, Ceramic Chip, 1K0, 0.063W, 1%, SMD 0603 [LRE106] |
| 312 | R36 | Bottom | LRE106 | Resistor, Ceramic Chip, 1K0, 0.063W, 1%, SMD 0603 [LRE106] |
| 313 | R37 | Bottom | LRE106 | Resistor, Ceramic Chip, 1K0, 0.063W, 1%, SMD 0603 [LRE106] |
| 314 | R38 | Bottom | LRE106 | Resistor, Ceramic Chip, 1K0, 0.063W, 1%, SMD 0603 [LRE106] |
| 315 | R39_OGA1 | Bottom | LRE027 | Resistor, Ceramic Chip, 2.2K, 0.1W, 1%, SMD 0603 [LRE027] |
| 316 | R39_OGA2 | Bottom | LRE027 | Resistor, Ceramic Chip, 2.2K, 0.1W, 1%, SMD 0603 [LRE027] |
| 317 | R39_OGA3 | Bottom | LRE027 | Resistor, Ceramic Chip, 2.2K, 0.1W, 1%, SMD 0603 [LRE027] |
| 318 | R40 | Bottom | LRE030 | Resistor, Ceramic Chip, 10K, 0.1W, 1%, SMD 0603 [LRE030] |
| 319 | R41 | Top | LRE027 | Resistor, Ceramic Chip, 2.2K, 0.1W, 1%, SMD 0603 [LRE027] |
| 320 | R42 | Top | LRE027 | Resistor, Ceramic Chip, 2.2K, 0.1W, 1%, SMD 0603 [LRE027] |
| 321 | R43 | Top | LRE027 | Resistor, Ceramic Chip, 2.2K, 0.1W, 1%, SMD 0603 [LRE027] |
| 322 | R44 | Top | LRE037 | Resistor, Ceramic Chip, 47R, 0.1W, 1%, SMD 0603 [LRE037] |
| 323 | R45 | Top | LRE142 | Resistor, Array, 49.9R, 0.063W, 1%, SMD 0603 [LRE142] |
| 324 | R46 | Top | LRE027 | Resistor, Ceramic Chip, 2.2K, 0.1W, 1%, SMD 0603 [LRE027] |
| 325 | R47 | Top | LRE147 | Resistor, Ceramic Chip, 10K, 0.0625W, 1%, SMD 0402 [LRE147] |
| 326 | R48 | Top | LRE027 | Resistor, Ceramic Chip, 2.2K, 0.1W, 1%, SMD 0603 [LRE027] |
| 327 | R49 | Bottom | LRE106 | Resistor, Ceramic Chip, 1K0, 0.063W, 1%, SMD 0603 [LRE106] |
| 328 | R50 | Top | LRE144 | Resistor, Ceramic Chip, 4.75K, 0.0625W, 1%, SMD 0402 [LRE144] |
| 329 | R51 | Top | LRE093 | Resistor, Ceramic Chip, 49.9R, 0.0625W, 0.5%, SMD 0402 [LRE093] |
| 330 | R52 | Top | LRE093 | Resistor, Ceramic Chip, 49.9R, 0.0625W, 0.5%, SMD 0402 [LRE093] |
| 331 | R53 | Top | LRE093 | Resistor, Ceramic Chip, 49.9R, 0.0625W, 0.5%, SMD 0402 [LRE093] |
| 332 | R54 | Top | LRE093 | Resistor, Ceramic Chip, 49.9R, 0.0625W, 0.5%, SMD 0402 [LRE093] |
| 333 | R55 | Bottom | LRE030 | Resistor, Ceramic Chip, 10K, 0.1W, 1%, SMD 0603 [LRE030] |
| 334 | R56 | Top | LRE037 | Resistor, Ceramic Chip, 47R, 0.1W, 1%, SMD 0603 [LRE037] |
| 335 | R57 | Bottom | LRE106 | Resistor, Ceramic Chip, 1K0, 0.063W, 1%, SMD 0603 [LRE106] |
| 336 | R58 | Bottom | LRE030 | Resistor, Ceramic Chip, 10K, 0.1W, 1%, SMD 0603 [LRE030] |
| 337 | R59 | Bottom | LRE030 | Resistor, Ceramic Chip, 10K, 0.1W, 1%, SMD 0603 [LRE030] |
| 338 | R60 | Bottom | LRE030 | Resistor, Ceramic Chip, 10K, 0.1W, 1%, SMD 0603 [LRE030] |
| 339 | R61 | Bottom | LRE030 | Resistor, Ceramic Chip, 10K, 0.1W, 1%, SMD 0603 [LRE030] |

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| 340 | R62_OGB1 | Top | LRE190 | Resistor, Thick Film, 120R, 0.25W, 5%, SMD 0805 [LRE190] |
| 341 | R62_OGB2 | Top | LRE190 | Resistor, Thick Film, 120R, 0.25W, 5%, SMD 0805 [LRE190] |
| 342 | R62_OGB3 | Top | LRE190 | Resistor, Thick Film, 120R, 0.25W, 5%, SMD 0805 [LRE190] |
| 343 | R63_OGB1 | Bottom | LRE027 | Resistor, Ceramic Chip, 2.2K, 0.1W, 1%, SMD 0603 [LRE027] |
| 344 | R63_OGB2 | Bottom | LRE027 | Resistor, Ceramic Chip, 2.2K, 0.1W, 1%, SMD 0603 [LRE027] |
| 345 | R63_OGB3 | Bottom | LRE027 | Resistor, Ceramic Chip, 2.2K, 0.1W, 1%, SMD 0603 [LRE027] |
| 346 | R64 | Bottom | LRE030 | Resistor, Ceramic Chip, 10K, 0.1W, 1%, SMD 0603 [LRE030] |
| 347 | R65 | Bottom | LRE030 | Resistor, Ceramic Chip, 10K, 0.1W, 1%, SMD 0603 [LRE030] |
| 348 | R67 | Top | LRE027 | Resistor, Ceramic Chip, 2.2K, 0.1W, 1%, SMD 0603 [LRE027] |
| 349 | R68 | Top | LRE219 | Resistor, Thick Film, 330R, 0.100W, 75V, 1%, SMD 0603 [LRE219] |
| 350 | R69 | Top | LRE027 | Resistor, Ceramic Chip, 2.2K, 0.1W, 1%, SMD 0603 [LRE027] |
| 351 | R70 | Top | LRE027 | Resistor, Ceramic Chip, 2.2K, 0.1W, 1%, SMD 0603 [LRE027] |
| 352 | R71 | Top | LRE027 | Resistor, Ceramic Chip, 2.2K, 0.1W, 1%, SMD 0603 [LRE027] |
| 353 | R72 | Top | LRE219 | Resistor, Thick Film, 330R, 0.100W, 75V, 1%, SMD 0603 [LRE219] |
| 354 | R73 | Top | LRE027 | Resistor, Ceramic Chip, 2.2K, 0.1W, 1%, SMD 0603 [LRE027] |
| 355 | R74 | Top | LRE027 | Resistor, Ceramic Chip, 2.2K, 0.1W, 1%, SMD 0603 [LRE027] |
| 356 | R75 | Top | LRE027 | Resistor, Ceramic Chip, 2.2K, 0.1W, 1%, SMD 0603 [LRE027] |
| 357 | R76 | Top | LRE027 | Resistor, Ceramic Chip, 2.2K, 0.1W, 1%, SMD 0603 [LRE027] |
| 358 | R77 | Top | LRE219 | Resistor, Thick Film, 330R, 0.100W, 75V, 1%, SMD 0603 [LRE219] |
| 359 | R78 | Top | LRE030 | Resistor, Ceramic Chip, 10K, 0.1W, 1%, SMD 0603 [LRE030] |
| 360 | R79_TH1 | Top | LRE030 | Resistor, Ceramic Chip, 10K, 0.1W, 1%, SMD 0603 [LRE030] |
| 361 | R79_TH2 | Top | LRE030 | Resistor, Ceramic Chip, 10K, 0.1W, 1%, SMD 0603 [LRE030] |
| 362 | R79_TH3 | Top | LRE030 | Resistor, Ceramic Chip, 10K, 0.1W, 1%, SMD 0603 [LRE030] |
| 363 | R79_TH4 | Top | LRE030 | Resistor, Ceramic Chip, 10K, 0.1W, 1%, SMD 0603 [LRE030] |
| 364 | R79_TH5 | Top | LRE030 | Resistor, Ceramic Chip, 10K, 0.1W, 1%, SMD 0603 [LRE030] |
| 365 | R79_TH6 | Top | LRE030 | Resistor, Ceramic Chip, 10K, 0.1W, 1%, SMD 0603 [LRE030] |
| 366 | R79_TH7 | Top | LRE030 | Resistor, Ceramic Chip, 10K, 0.1W, 1%, SMD 0603 [LRE030] |
| 367 | R79_TH8 | Top | LRE030 | Resistor, Ceramic Chip, 10K, 0.1W, 1%, SMD 0603 [LRE030] |
| 368 | R80_TH1 | Top | LRE030 | Resistor, Ceramic Chip, 10K, 0.1W, 1%, SMD 0603 [LRE030] |
| 369 | R80_TH2 | Top | LRE030 | Resistor, Ceramic Chip, 10K, 0.1W, 1%, SMD 0603 [LRE030] |
| 370 | R80_TH3 | Top | LRE030 | Resistor, Ceramic Chip, 10K, 0.1W, 1%, SMD 0603 [LRE030] |
| 371 | R80_TH4 | Top | LRE030 | Resistor, Ceramic Chip, 10K, 0.1W, 1%, SMD 0603 [LRE030] |
| 372 | R80_TH5 | Top | LRE030 | Resistor, Ceramic Chip, 10K, 0.1W, 1%, SMD 0603 [LRE030] |
| 373 | R80_TH6 | Top | LRE030 | Resistor, Ceramic Chip, 10K, 0.1W, 1%, SMD 0603 [LRE030] |
| 374 | R80_TH7 | Top | LRE030 | Resistor, Ceramic Chip, 10K, 0.1W, 1%, SMD 0603 [LRE030] |
| 375 | R80_TH8 | Top | LRE030 | Resistor, Ceramic Chip, 10K, 0.1W, 1%, SMD 0603 [LRE030] |
| 376 | R81_TH1 | Top | LRE030 | Resistor, Ceramic Chip, 10K, 0.1W, 1%, SMD 0603 [LRE030] |
| 377 | R81_TH2 | Top | LRE030 | Resistor, Ceramic Chip, 10K, 0.1W, 1%, SMD 0603 [LRE030] |
| 378 | R81_TH3 | Top | LRE030 | Resistor, Ceramic Chip, 10K, 0.1W, 1%, SMD 0603 [LRE030] |

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| 379 | R81_TH4 | Top | LRE030 | Resistor, Ceramic Chip, 10K, 0.1W, 1%, SMD 0603 [LRE030] |
| 380 | R81_TH5 | Top | LRE030 | Resistor, Ceramic Chip, 10K, 0.1W, 1%, SMD 0603 [LRE030] |
| 381 | R81_TH6 | Top | LRE030 | Resistor, Ceramic Chip, 10K, 0.1W, 1%, SMD 0603 [LRE030] |
| 382 | R81_TH7 | Top | LRE030 | Resistor, Ceramic Chip, 10K, 0.1W, 1%, SMD 0603 [LRE030] |
| 383 | R81_TH8 | Top | LRE030 | Resistor, Ceramic Chip, 10K, 0.1W, 1%, SMD 0603 [LRE030] |
| 384 | R82_TH1 | Top | LRE030 | Resistor, Ceramic Chip, 10K, 0.1W, 1%, SMD 0603 [LRE030] |
| 385 | R82_TH2 | Top | LRE030 | Resistor, Ceramic Chip, 10K, 0.1W, 1%, SMD 0603 [LRE030] |
| 386 | R82_TH3 | Top | LRE030 | Resistor, Ceramic Chip, 10K, 0.1W, 1%, SMD 0603 [LRE030] |
| 387 | R82_TH4 | Top | LRE030 | Resistor, Ceramic Chip, 10K, 0.1W, 1%, SMD 0603 [LRE030] |
| 388 | R82_TH5 | Top | LRE030 | Resistor, Ceramic Chip, 10K, 0.1W, 1%, SMD 0603 [LRE030] |
| 389 | R82_TH6 | Top | LRE030 | Resistor, Ceramic Chip, 10K, 0.1W, 1%, SMD 0603 [LRE030] |
| 390 | R82_TH7 | Top | LRE030 | Resistor, Ceramic Chip, 10K, 0.1W, 1%, SMD 0603 [LRE030] |
| 391 | R82_TH8 | Top | LRE030 | Resistor, Ceramic Chip, 10K, 0.1W, 1%, SMD 0603 [LRE030] |
| 392 | R84 | Bottom | LRE144 | Resistor, Ceramic Chip, 4.75K, 0.0625W, 1%, SMD 0402 [LRE144] |
| 393 | R85 | Bottom | LRE144 | Resistor, Ceramic Chip, 4.75K, 0.0625W, 1%, SMD 0402 [LRE144] |
| 394 | R86_TH1 | Top | LRE220 | Resistor, Thick Film, 2.7K, 0.100W, 75V, 1%, SMD 0603 [LRE220] |
| 395 | R86_TH2 | Top | LRE220 | Resistor, Thick Film, 2.7K, 0.100W, 75V, 1%, SMD 0603 [LRE220] |
| 396 | R86_TH3 | Top | LRE220 | Resistor, Thick Film, 2.7K, 0.100W, 75V, 1%, SMD 0603 [LRE220] |
| 397 | R86_TH4 | Top | LRE220 | Resistor, Thick Film, 2.7K, 0.100W, 75V, 1%, SMD 0603 [LRE220] |
| 398 | R86_TH5 | Top | LRE220 | Resistor, Thick Film, 2.7K, 0.100W, 75V, 1%, SMD 0603 [LRE220] |
| 399 | R86_TH6 | Top | LRE220 | Resistor, Thick Film, 2.7K, 0.100W, 75V, 1%, SMD 0603 [LRE220] |
| 400 | R86_TH7 | Top | LRE220 | Resistor, Thick Film, 2.7K, 0.100W, 75V, 1%, SMD 0603 [LRE220] |
| 401 | R86_TH8 | Top | LRE220 | Resistor, Thick Film, 2.7K, 0.100W, 75V, 1%, SMD 0603 [LRE220] |
| 402 | R87_TH1 | Top | LRE030 | Resistor, Ceramic Chip, 10K, 0.1W, 1%, SMD 0603 [LRE030] |
| 403 | R87_TH2 | Top | LRE030 | Resistor, Ceramic Chip, 10K, 0.1W, 1%, SMD 0603 [LRE030] |
| 404 | R87_TH3 | Top | LRE030 | Resistor, Ceramic Chip, 10K, 0.1W, 1%, SMD 0603 [LRE030] |
| 405 | R87_TH4 | Top | LRE030 | Resistor, Ceramic Chip, 10K, 0.1W, 1%, SMD 0603 [LRE030] |
| 406 | R87_TH5 | Top | LRE030 | Resistor, Ceramic Chip, 10K, 0.1W, 1%, SMD 0603 [LRE030] |
| 407 | R87_TH6 | Top | LRE030 | Resistor, Ceramic Chip, 10K, 0.1W, 1%, SMD 0603 [LRE030] |
| 408 | R87_TH7 | Top | LRE030 | Resistor, Ceramic Chip, 10K, 0.1W, 1%, SMD 0603 [LRE030] |
| 409 | R87_TH8 | Top | LRE030 | Resistor, Ceramic Chip, 10K, 0.1W, 1%, SMD 0603 [LRE030] |
| 410 | R88_TH1 | Top | LRE030 | Resistor, Ceramic Chip, 10K, 0.1W, 1%, SMD 0603 [LRE030] |
| 411 | R88_TH2 | Top | LRE030 | Resistor, Ceramic Chip, 10K, 0.1W, 1%, SMD 0603 [LRE030] |
| 412 | R88_TH3 | Top | LRE030 | Resistor, Ceramic Chip, 10K, 0.1W, 1%, SMD 0603 [LRE030] |
| 413 | R88_TH4 | Top | LRE030 | Resistor, Ceramic Chip, 10K, 0.1W, 1%, SMD 0603 [LRE030] |
| 414 | R88_TH5 | Top | LRE030 | Resistor, Ceramic Chip, 10K, 0.1W, 1%, SMD 0603 [LRE030] |
| 415 | R88_TH6 | Top | LRE030 | Resistor, Ceramic Chip, 10K, 0.1W, 1%, SMD 0603 [LRE030] |
| 416 | R88_TH7 | Top | LRE030 | Resistor, Ceramic Chip, 10K, 0.1W, 1%, SMD 0603 [LRE030] |
| 417 | R88_TH8 | Top | LRE030 | Resistor, Ceramic Chip, 10K, 0.1W, 1%, SMD 0603 [LRE030] |

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| 418 | R89 | Top | LRE030 | Resistor, Ceramic Chip, 10K, 0.1W, 1%, SMD 0603 [LRE030] |
| 419 | R91_ML1 | Top | LRE167 | Resistor, Ceramic Chip, 1.78K, 0.1W, 1%, SMD 0603 [LRE167] |
| 420 | R91_ML2 | Top | LRE167 | Resistor, Ceramic Chip, 1.78K, 0.1W, 1%, SMD 0603 [LRE167] |
| 421 | R92_ML1 | Top | LRE140 | Resistor, Ceramic Chip, 3.3K0, 0.1W, 1%, SMD 0603 [LRE140] |
| 422 | R92_ML2 | Top | LRE140 | Resistor, Ceramic Chip, 3.3K0, 0.1W, 1%, SMD 0603 [LRE140] |
| 423 | RLY2 | Top | LSW007 | Relay, DPDT, Non Latching, 12VDC Coil, 2A Rating, PTH |
| 424 | X1 | Top | LIC110 | Crystal, 10MHz, 18pF, SMD [LIC110] |
| Approved | | | Notes | |
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