

| # | PART_NUMBER | Description | PART_NAME | Designator | Quantity | Comm. |
|----|--------------------|---|--------------|---|----------|-------|
| 1 | GRM155R60J225KE | 2.2uF, 10%, 6.3V, 0402, X5R | Murata | C1, C7, C8, C37 | 4 | |
| 2 | GRM1555C1H471JA01D | 470pF, 5%, 50V, 0402, C0G | Murata | C2 | 1 | |
| 3 | GCM155R71H104KE02D | 0.1uF, 10%, 50V, 0402, X7R | Murata | C3 | 1 | |
| 4 | CL05B333KO5NNNC | 0.033uF, 10%, 16V, 0402, X7R | Samsung | C4, C5, C10, C11 | 4 | |
| 5 | GRM1555C1H100JA01D | 10pF, 5%, 50V, 0402, C0G | Murata | C6, C45 | 2 | |
| 6 | GRM155R71C104KA88D | 0.1uF, 10%, 16V, 0402, X7R | Murata | C9, C23, C24, C25, C26, C27, C28 | 7 | |
| 7 | GRM155R60J475ME47D | 4.7uF, 20%, 6.3V, 0402, X5R | Murata | C12, C22 | 2 | |
| 8 | C0402C102F5GACTU | 1nF, 1%, 50V, 0402, C0G | KEMET | C13 | 1 | |
| 9 | GRM1555C1H101JA01D | 100pF, 5%, 50V, 0402, C0G | Murata | C16, C19 | 2 | |
| 10 | 0402N1R5C500CT | 1.5pF, ±0.25pF, 50V, 0402, C0G | Murata | C17 | 1 | |
| 11 | 0402N3R3C500N | 3.3pF, ±0.25pF, 50V, 0402, C0G | Hitano | C20 | 1 | |
| 12 | GRM188R60J106KE47D | 10uF, 10%, 6.3V, 0603, X5R | Murata | C29, C30 | 2 | |
| 13 | ZEN056V175A12YM | Polymer Protected (1.75A) Zener Diode (5.6V) | Littelfuse | DA1 | 1 | |
| 14 | MAX2659ELT+ | RF Amplifiers > IC RF AMP GPS 1575.42MHZ 6UDFN | Maxim | DA2 | 1 | |
| 15 | MAX2691EWS+T | LNA, L2 GPS/GNSS, 4-WLP | Maxim | DA3 | 1 | |
| 16 | X1G005441020112 | TCXO, TG2016SMN, 16.368 MHz, SMD 2.00 x 1.6 mm | EPSON | DA4 | 1 | |
| 17 | ADM7170ACPZ-1.8-R7 | LDO, 1.8V, 2.3V..6.5V, 500 mA, Ultralow Noise | AD | DA5 | 1 | |
| 18 | NT1062.1 | 2-channel L1/L2/L3/L5 RF Front-End IC, QFN-32 | NTElab | DA7 | 1 | |
| 19 | 0ZCM0016FF2G | Resettable Fuses, 160mA, 0603 | belfuse | F1 | 1 | |
| 20 | Jumper | JUMPER D1.5mm | PCB made | J6, J9 | 2 | |
| 21 | LQW15AN56NH00 | 56nH, 3%, 0.2A, 0402 | Murata | L1 | 1 | |
| 22 | LQW15AN6N8G00 | 6.8nH, 5%, 0.3A, 0402 | Murata | L2 | 1 | |
| 23 | LQW15AN12NG00 | 12nH, ±2%, 0.5A, 0402 | Murata | L3 | 1 | |
| 24 | LQW15AN9N1G00D | 9.1nH, 2%, 0.5A, 0402 | Murata | L4 | 1 | |
| 25 | LQW15AN8N2G00 | 8.2nH, 2%, 0.54A, 0402 | Murata | L5 | 1 | |
| 26 | RC0402JR-0720KL | 20 kOhm, 5%, 0402 | Yageo | R1 | 1 | |
| 27 | RC0402JR-070RL | 0 Ohm, 0402 | Yageo | R3, R9, R16 | 3 | |
| 28 | CR0402-JW-103GLF | 10 kOhm, 5%, 0402 | Bourns | R5 | 1 | |
| 29 | RC0402FR-0761K9L | 61.9 kOhm, 1%, 0402 | FaithfulLink | R6 | 1 | |
| 30 | RC0402J100K | 100 kOhm, 5%, 0402 | FaithfulLink | R7, R8 | 2 | |
| 31 | RC0402JR-071ML | 1 MOhm, 5%, 0402 | FaithfulLink | R10 | 1 | |
| 32 | RC0402JR-07200RL | 200 Ohm, 5%, 0402 | Yageo | R11 | 1 | |
| 33 | RC0402F1K | 1 kOhm, 1%, 0402 | FaithfulLink | R19 | 1 | |
| 34 | S0971-46R | Shield holder | HARWIN | SH1, SH2, SH3, SH4, SH5, SH6, SH7, SH8, SH9, SH10, SH11, SH12 | 12 | |
| 35 | T1608VC-A1 | Diode, Opt, Red, 0603 | Paralight | VD1, VD3 | 2 | |
| 36 | T1608GC-A1N | Diode, Opt, Green, 0603 | Paralight | VD5 | 1 | |
| 37 | 142-0761-881 | SMA, Edge | Cinch | X2, X3, X5, X7 | 4 | |
| 38 | DJK-02A | DC Power jack | | X6 | 1 | |
| 39 | PLS-3 | 3x1, 2.54mm | | XP1, XP2, XP5 | 3 | |
| 40 | PLS-2 | 2x1, 2.54 mm | | XP8, XP11, XP20 | 3 | |
| 41 | MJ-6-1 | Jumper | | XS1, XS2, XS3 | 3 | |
| 42 | BLM18GG471SN1 | FerriteBead, 470 Ohm(100M), 1.8 kOhm (1G), 0.2A, 0603 | Murata | Z1, Z2 | 2 | |
| 43 | BLM18PG471SN1D | FerriteBead, 470 Ohm, 1A, 0603 | Murata | Z3, Z12 | 2 | |
| 44 | NFM18PC225B1A3 | Filter, 2.2uF, 20%, 10V, 4A, 0603, 3-term | Murata | Z5, Z6, Z7, Z11 | 4 | |
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| | <i>Variant-dependent</i> | | | | | |
| 45 | GRT188R61H105KE13D | 1uF, 10%, 50V, 0603, X5R | Murata | C14, C39 | 2 | DNP |
| 46 | GRM155R71E103KA01D | 0.01uF, 10%, 25V, 0402, X7R | Murata | C15, C35 | 2 | DNP |
| 47 | GRM1555C1H4R7CA01D | 4.7pF, ±0.25pF, 50V, 0402, C0G | Murata | C18 | 1 | DNP |
| 48 | GRM155R60J225KE | 2.2uF, 10%, 6.3V, 0402, X5R | Murata | C21 | 1 | DNP |
| 49 | GRM155R71H223K | 22nF, 10%, 50V, 0402, X7R | Murata | C31, C32, C33, C34 | 4 | DNP |
| 50 | GRM155R71C104KA88D | 0.1uF, 10%, 16V, 0402, X7R | Murata | C36, C38, C40, C41, C47, C48 | 6 | DNP |
| 51 | GRM155R60J475ME47D | 4.7uF, 20%, 6.3V, 0402, X5R | Murata | C42 | 1 | DNP |
| 52 | CC0402JRNPO9BN120 | 12pF, 5%, 50V, 0402, C0G | Murata | C43, C44 | 2 | DNP |
| 53 | TPSA106K010R0900 | 10u, 10%, 10V, A, Tant, 1206 (CASE A) | AVX | C46 | 1 | DNP |
| 54 | LP2985AIM5-3.3 | LDO, 3.3V, 150mA, SOT-23-5 | NSC | DA6 | 1 | DNP |
| 55 | STM32F302CBT6 | Microcontroller, LQFP48 | ST | DD2 | 1 | DNP |
| 56 | LQW15AN13NG00D | 13nH, 2%, 0.43A, 0402 | Murata | L6 | 1 | DNP |
| 57 | ACM4520-231-2P-T000 | Filter,230 Ohm, 2.6A, SMD4.7x4.5x2.0mm | TDK | L7 | 1 | DNP |
| 58 | RC0402J100K | 100 kOhm, 5%, 0402 | FaithfulLink | R2 | 1 | DNP |
| 59 | RC0402JR-22R | 22 Ohm, 5%, 0402 | FaithfulLink | R4, R15, R14 | 3 | DNP |
| 60 | RC0402F1K | 1 kOhm, 1%, 0402 | FaithfulLink | R12, R13 | 2 | DNP |
| 61 | RC0402J3K | 3 kOhm, 5%, 0402 | FaithfulLink | R17, R26 | 2 | DNP |
| 62 | RC0402JR-071K5L | 1.5 kOhm, 5%, 0402 | FaithfulLink | R18, R20 | 2 | DNP |
| 63 | CR0402-JW-103GLF | 10 kOhm, 5%, 0402 | Bourns | R23 | 1 | DNP |
| 64 | RC0402J1K2 | 1.2 kOhm, 5%, 0402 | FaithfulLink | R27, R28 | 2 | DNP |
| 65 | T36-1+ | RF Transformer,50Ω 0.03 to 20 MHz ,36:1 | minicircuits | T1, T2 | 2 | DNP |
| 66 | USBLC6-2SC6 | TVS DIODE 5.25V 17V SOT23-6 | ST | VD2 | 1 | DNP |
| 67 | FDV301N | Transistor, N, 50V, 220mA, SOT-23 | ON | VT1 | 1 | DNP |
| 68 | 901-143-6RFX | SMA, Right Angle | Amphenol | X8, X9 | 2 | DNP |
| 69 | 105017-0001 | USB_micro_B type | Molex | X12 | 1 | DNP |
| 70 | PLS-4 | 4x1, 2.54mm | | XP9, XP10 | 2 | DNP |
| 71 | PLS-6 | 6x1, 2.54 mm | | XP14 | 1 | DNP |
| 72 | PLS-2 | 2x1, 2.54 mm | | XP17, XP18, XP19 | 3 | DNP |
| 73 | BLM18GG471SN1 | Ferrite Bead, 470 Ohm, 25%, 0.2A (1 Ohm), 0603 | Murata | Z8 | 1 | DNP |
| 74 | TA1785A | Filter, SAW, TA1785AMHz, BW 47 MHz, 3.0x3.0mm | TAI-SAW | Z9 | 1 | DNP |
| 75 | TA1104A | Filter, SAW, 1199MHz, BW 108 MHz, 3.1x3.1mm | TAI-SAW | Z10 | 1 | DNP |
| 76 | 7B-8.000MAAJ-T | Crystal, quartz, 8 MHz, ±30ppm, 18pF, SMD 5x3.2mm | TXC | ZQ1 | 1 | DNP |
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| | Assembly options | | | | | |
| | 11DS | <u>HTMP.464337.334</u> | | | | |
| 1 | GRM155R60J225KE | 2.2uF, 10%, 6.3V, 0402, X5R | Murata | C21 | 1 | |
| 2 | GRM155R71C104KA88D | 0.1uF, 10%, 16V, 0402, X7R | Murata | C36, C38, C40, C41, C47, C48 | 6 | |
| 3 | GRM155R60J475ME47D | 4.7uF, 20%, 6.3V, 0402, X5R | Murata | C42 | 1 | |
| 4 | GRT188R61H105KE13D | 1uF, 10%, 50V, 0603, X5R | Murata | C14, C39 | 2 | |
| 5 | GRM155R71E103KA01D | 0.01uF, 10%, 25V, 0402, X7R | Murata | C15, C35 | 2 | |
| 6 | GJM1555C1H3R3CB01D | 3.3pF, ±0.25pF, 50V, 0402, C0G | Murata | C18 | 1 | |
| 7 | CC0402JRNPO9BN120 | 12pF, 5%, 50V, 0402, C0G | Murata | C43, C44 | 2 | |
| 8 | TPSA106K010R0900 | 10 uF, 10%, 10V, tantalum, 1206 | AVX | C46 | 1 | |
| 9 | LP2985AIM5-3.3 | LDO, 3.3V, 150mA, SOT-23-5 | NSC | DA6 | 1 | |
| 10 | STM32F302CBT6 | Microcontroller, LQFP48 | ST | DD2 | 1 | |
| 11 | LQG15HS12NG02D | 12nH, 2%, 0.5A, 0402 | Murata | L6 | 1 | |
| 12 | ACM4520-231-2P-T000 | Filter,230 Ohm, 2.6A, SMD4.7x4.5x2.0mm | TDK | L7 | 1 | |
| 13 | CR0402-JW-103GLF | 10 kOhm, 5%, 0402 | Bourns | R23 | 1 | |

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|----|---------------------|---|--------------|------------------------------|---|--|
| 14 | RC0402F1K | 1 kOhm, 1%, 0402 | FaithfulLink | R12, R13 | 2 | |
| 15 | RC0402JR-22R | 22 Ohm, 5%, 0402 | FaithfulLink | R14 | 1 | |
| 16 | RC0402J3K | 3 kOhm, 5%, 0402 | FaithfulLink | R17, R26 | 2 | |
| 17 | RC0402J1K2 | 1.2 kOhm, 5%, 0402 | FaithfulLink | R27, R28 | 2 | |
| 18 | USBLC6-2SC6 | TVS DIODE 5.25V 17V SOT23-6 | ST | VD2 | 1 | |
| 19 | FDV301N | Transistor, N, 50V, 220mA, SOT-23 | ON | VT1 | 1 | |
| 20 | 105017-0001 | USB_micro_B type | Molex | X12 | 1 | |
| 21 | PLS-4 | 4x1, 2.54mm | | XP9, XP10 | 2 | |
| 22 | BLM18GG471SN1 | Ferrite Bead, 470 Ohm, 25%, 0.2A (1 Ohm), 0603 | Murata | Z8 | 1 | |
| 23 | TA1785A | Filter, SAW, TA1785AMHz, BW 47 MHz, 3.0x3.0mm | TAI-SAW | Z9 | 1 | |
| 24 | TA1104A | Filter, SAW, 1199MHz, BW 108 MHz, 3.1x3.1mm | TAI-SAW | Z10 | 1 | |
| 25 | 7B-8.000MAAJ-T | Crystal, quartz, 8 MHz, ±30ppm, 18pF, SMD 5x3.2mm | TXC | ZQ1 | 1 | |
| | | | | | | |
| | <u>11US</u> | <u>HTMP.464337.334</u> | | | | |
| 1 | GRM155R60J225KE | 2.2uF, 10%, 6.3V, 0402, X5R | Murata | C21 | 1 | |
| 2 | GRM155R71C104KA88D | 0.1uF, 10%, 16V, 0402, X7R | Murata | C36, C38, C40, C41, C47, C48 | 6 | |
| 3 | GRM155R60J475ME47D | 4.7uF, 20%, 6.3V, 0402, X5R | Murata | C42 | 1 | |
| 4 | GRT188R61H105KE13D | 1uF, 10%, 50V, 0603, X5R | Murata | C14, C39 | 2 | |
| 5 | GRM155R71E103KA01D | 0.01uF, 10%, 25V, 0402, X7R | Murata | C15, C35 | 2 | |
| 6 | GJM1555C1H3R3CB01D | 3.3pF, ±0.25pF, 50V, 0402, C0G | Murata | C18 | 1 | |
| 7 | GRM155R71H223K | 22nF, 10%, 50V, 0402, X7R | Murata | C31, C32, C33, C34 | 4 | |
| 8 | CC0402JRNPO9BN120 | 12pF, 5%, 50V, 0402, C0G | Murata | C43, C44 | 2 | |
| 9 | TPSA106K010R0900 | 10 uF, 10%, 10V, tantalum, 1206 | AVX | C46 | 1 | |
| 10 | LP2985AIM5-3.3 | LDO, 3.3V, 150mA, SOT-23-5 | NSC | DA6 | 1 | |
| 11 | STM32F302CBT6 | Microcontroller, LQFP48 | ST | DD2 | 1 | |
| 12 | LQG15HS12NG02D | 12nH, 2%, 0.5A, 0402 | Murata | L6 | 1 | |
| 13 | ACM4520-231-2P-T000 | Filter,230 Ohm, 2.6A, SMD4.7x4.5x2.0mm | TDK | L7 | 1 | |
| 14 | CR0402-JW-103GLF | 10 kOhm, 5%, 0402 | Bourns | R23 | 1 | |
| 15 | RC0402F1K | 1 kOhm, 1%, 0402 | FaithfulLink | R12, R13 | 2 | |
| 16 | RC0402JR-22R | 22 Ohm, 5%, 0402 | FaithfulLink | R14 | 1 | |
| 17 | RC0402J3K | 3 kOhm, 5%, 0402 | FaithfulLink | R17, R26 | 2 | |
| 18 | RC0402J1K2 | 1.2 kOhm, 5%, 0402 | FaithfulLink | R27, R28 | 2 | |
| 19 | T36-1+ | RF Transformer,50Ω 0.03 to 20 MHz, 36:1 | minicircuits | T1, T2 | 2 | |
| 20 | USBLC6-2SC6 | TVS DIODE 5.25V 17V SOT23-6 | ST | VD2 | 1 | |
| 21 | FDV301N | Transistor, N, 50V, 220mA, SOT-23 | ON | VT1 | 1 | |
| 22 | 901-143-6RFX | SMA, Right Angle | Amphenol | X8, X9 | 2 | |
| 23 | 105017-0001 | USB_micro_B type | Molex | X12 | 1 | |
| 24 | BLM18GG471SN1 | Ferrite Bead, 470 Ohm, 25%, 0.2A (1 Ohm), 0603 | Murata | Z8 | 1 | |
| 25 | TA1785A | Filter, SAW, TA1785AMHz, BW 47 MHz, 3.0x3.0mm | TAI-SAW | Z9 | 1 | |
| 26 | TA1104A | Filter, SAW, 1199MHz, BW 108 MHz, 3.1x3.1mm | TAI-SAW | Z10 | 1 | |
| 27 | 7B-8.000MAAJ-T | Crystal, quartz, 8 MHz, ±30ppm, 18pF, SMD 5x3.2mm | TXC | ZQ1 | 1 | |
| | | | | | | |
| | <u>22DS</u> | <u>HTMP.464337.334</u> | | | | |
| 1 | GRM155R60J225KE | 2.2uF, 10%, 6.3V, 0402, X5R | Murata | C21 | 1 | |
| 2 | GRM155R71C104KA88D | 0.1uF, 10%, 16V, 0402, X7R | Murata | C36, C38, C40, C41, C47, C48 | 6 | |
| 3 | GRM155R60J475ME47D | 4.7uF, 20%, 6.3V, 0402, X5R | Murata | C42 | 1 | |
| 4 | GRT188R61H105KE13D | 1uF, 10%, 50V, 0603, X5R | Murata | C14, C39 | 2 | |
| 5 | GRM155R71E103KA01D | 0.01uF, 10%, 25V, 0402, X7R | Murata | C15, C35 | 2 | |
| 6 | GRM1555C1H3R9CA01 | 3.9 pF, ±0.25pF, 50V, 0402, C0G | Murata | C18 | 1 | |

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|----|---------------------|---|--------------|------------------------------|---|--|
| 7 | CC0402JRNPO9BN120 | 12pF, 5%, 50V, 0402, C0G | Murata | C43, C44 | 2 | |
| 8 | TPSA106K010R0900 | 10 uF, 10%, 10V, tantalum, 1206 | AVX | C46 | 1 | |
| 9 | LP2985AIM5-3.3 | LDO, 3.3V, 150mA, SOT-23-5 | NSC | DA6 | 1 | |
| 10 | STM32F302CBT6 | Microcontroller, LQFP48 | ST | DD2 | 1 | |
| 11 | LQW15AN15NG00D | 15nH, ±2%, 460mA, 0402 | Murata | L6 | 1 | |
| 12 | ACM4520-231-2P-T000 | Filter,230 Ohm, 2.6A, SMD4.7x4.5x2.0mm | TDK | L7 | 1 | |
| 13 | CR0402-JW-103GLF | 10 kOhm, 5%, 0402 | Bourns | R23 | 1 | |
| 14 | RC0402F1K | 1 kOhm, 1%, 0402 | FaithfulLink | R12, R13 | 2 | |
| 15 | RC0402JR-22R | 22 Ohm, 5%, 0402 | FaithfulLink | R14 | 1 | |
| 16 | RC0402J3K | 3 kOhm, 5%, 0402 | FaithfulLink | R17, R26 | 2 | |
| 17 | RC0402J1K2 | 1.2 kOhm, 5%, 0402 | FaithfulLink | R27, R28 | 2 | |
| 18 | USBL C6-2SC6 | TVS DIODE 5.25V 17V SOT23-6 | ST | VD2 | 1 | |
| 19 | FDV301N | Transistor, N, 50V, 220mA, SOT-23 | ON | VT1 | 1 | |
| 20 | 105017-0001 | USB_micro_B type | Molex | X12 | 1 | |
| 21 | PLS-4 | 4x1, 2.54mm | | XP9, XP10 | 2 | |
| 22 | BLM18GG471SN1 | Ferrite Bead, 470 Ohm, 25%, 0.2A (1 Ohm), 0603 | Murata | Z8 | 1 | |
| 23 | TA0549A | Filter, SAW, 1575.5 MHz, BW 13 MHz, 3.0x3.0mm | TAI-SAW | Z9 | 1 | |
| 24 | TA0675A | Filter, SAW, 1176.45 MHz, BW 20 MHz, 3.0x3.0mm | TAI-SAW | Z10 | 1 | |
| 25 | 7B-8.000MAAJ-T | Crystal, quartz, 8 MHz, ±30ppm, 18pF, SMD 5x3.2mm | TXC | ZQ1 | 1 | |
| | | | | | | |
| | 22US | HTMP.464337.334 | | | | |
| 1 | GRM155R60J225KE | 2.2uF, 10%, 6.3V, 0402, X5R | Murata | C21 | 1 | |
| 2 | GRM155R71C104KA88D | 0.1uF, 10%, 16V, 0402, X7R | Murata | C36, C38, C40, C41, C47, C48 | 6 | |
| 3 | GRM155R60J475ME47D | 4.7uF, 20%, 6.3V, 0402, X5R | Murata | C42 | 1 | |
| 4 | GRT188R61H105KE13D | 1uF, 10%, 50V, 0603, X5R | Murata | C14, C39 | 2 | |
| 5 | GRM155R71E103KA01D | 0.01uF, 10%, 25V, 0402, X7R | Murata | C15, C35 | 2 | |
| 6 | GRM1555C1H3R9CA01 | 3.9 pF, ±0.25pF, 50V, 0402, C0G | Murata | C18 | 1 | |
| 7 | GRM155R71H223K | 22nF, 10%, 50V, 0402, X7R | Murata | C31, C32, C33, C34 | 4 | |
| 8 | CC0402JRNPO9BN120 | 12pF, 5%, 50V, 0402, C0G | Murata | C43, C44 | 2 | |
| 9 | TPSA106K010R0900 | 10 uF, 10%, 10V, tantalum, 1206 | AVX | C46 | 1 | |
| 10 | LP2985AIM5-3.3 | LDO, 3.3V, 150mA, SOT-23-5 | NSC | DA6 | 1 | |
| 11 | STM32F302CBT6 | Microcontroller, LQFP48 | ST | DD2 | 1 | |
| 12 | LQW15AN15NG00D | 15nH, ±2%, 460mA, 0402 | Murata | L6 | 1 | |
| 13 | ACM4520-231-2P-T000 | Filter,230 Ohm, 2.6A, SMD4.7x4.5x2.0mm | TDK | L7 | 1 | |
| 14 | CR0402-JW-103GLF | 10 kOhm, 5%, 0402 | Bourns | R23 | 1 | |
| 15 | RC0402F1K | 1 kOhm, 1%, 0402 | FaithfulLink | R12, R13 | 2 | |
| 16 | RC0402JR-22R | 22 Ohm, 5%, 0402 | FaithfulLink | R14 | 1 | |
| 17 | RC0402J3K | 3 kOhm, 5%, 0402 | FaithfulLink | R17, R26 | 2 | |
| 18 | RC0402J1K2 | 1.2 kOhm, 5%, 0402 | FaithfulLink | R27, R28 | 2 | |
| 19 | T36-1+ | RF Transformer,50Ω 0.03 to 20 MHz, 36:1 | minicircuits | T1, T2 | 2 | |
| 20 | USBL C6-2SC6 | TVS DIODE 5.25V 17V SOT23-6 | ST | VD2 | 1 | |
| 21 | FDV301N | Transistor, N, 50V, 220mA, SOT-23 | ON | VT1 | 1 | |
| 22 | 901-143-6RFX | SMA, Right Angle | Amphenol | X8, X9 | 2 | |
| 23 | 105017-0001 | USB_micro_B type | Molex | X12 | 1 | |
| 24 | BLM18GG471SN1 | Ferrite Bead, 470 Ohm, 25%, 0.2A (1 Ohm), 0603 | Murata | Z8 | 1 | |
| 25 | TA0549A | Filter, SAW, 1575.5 MHz, BW 13 MHz, 3.0x3.0mm | TAI-SAW | Z9 | 1 | |
| 26 | TA0675A | Filter, SAW, 1176.45 MHz, BW 20 MHz, 3.0x3.0mm | TAI-SAW | Z10 | 1 | |
| 27 | 7B-8.000MAAJ-T | Crystal, quartz, 8 MHz, ±30ppm, 18pF, SMD 5x3.2mm | TXC | ZQ1 | 1 | |
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|----|---------------------|---|---------------------|------------------------------|---|--|
| | 23US | HTMP.464337.334 | | | | |
| 1 | GRM155R60J225KE | 2.2uF, 10%, 6.3V, 0402, X5R | Murata | C21 | 1 | |
| 2 | GRM155R71C104KA88D | 0.1uF, 10%, 16V, 0402, X7R | Murata | C36, C38, C40, C41, C47, C48 | 6 | |
| 3 | GRM155R60J475ME47D | 4.7uF, 20%, 6.3V, 0402, X5R | Murata | C42 | 1 | |
| 4 | GRT188R61H105KE13D | 1uF, 10%, 50V, 0603, X5R | Murata | C14, C39 | 2 | |
| 5 | GRM155R71E103KA01D | 0.01uF, 10%, 25V, 0402, X7R | Murata | C15, C35 | 2 | |
| 6 | GRM1555C1H5R6CA01 | 5.6 pF, ±0.25pF, 50V, 0402, C0G | Murata | C18 | 1 | |
| 7 | GRM155R71H223K | 22nF, 10%, 50V, 0402, X7R | Murata | C31, C32, C33, C34 | 4 | |
| 8 | CC0402JRNPO9BN120 | 12pF, 5%, 50B, 0402, C0G | Murata | C43, C44 | 2 | |
| 9 | TPSA106K010R0900 | 10 uF, 10%, 10V, tantalum, 1206 | AVX | C46 | 1 | |
| 10 | LP2985AIM5-3.3 | LDO, 3.3V, 150mA, SOT-23-5 | NSC | DA6 | 1 | |
| 11 | STM32F302CBT6 | Microcontroller, LQFP48 | ST | DD2 | 1 | |
| 12 | LQW15AN13NG00D | 13nH, 2%, 0.43A, 0402 | Murata | L6 | 1 | |
| 13 | ACM4520-231-2P-T000 | Filter,230 Ohm, 2.6A, SMD4.7x4.5x2.0mm | TDK | L7 | 1 | |
| 14 | CR0402-JW-103GLF | 10 kOhm, 5%, 0402 | Bourns | R23 | 1 | |
| 15 | RC0402F1K | 1 kOhm, 1%, 0402 | FaithfulLink | R12, R13 | 2 | |
| 16 | RC0402JR-22R | 22 Ohm, 5%, 0402 | FaithfulLink | R14 | 1 | |
| 17 | RC0402J3K | 3 kOhm, 5%, 0402 | FaithfulLink | R17, R26 | 2 | |
| 18 | RC0402J1K2 | 1.2 kOhm, 5%, 0402 | FaithfulLink | R27, R28 | 2 | |
| 19 | T36-1+ | RF Transformer,50Ω 0.03 to 20 MHz, 36:1 | minicircuits | T1, T2 | 2 | |
| 20 | USBLC6-2SC6 | TVS DIODE 5.25V 17V SOT23-6 | ST | VD2 | 1 | |
| 21 | FDV301N | Transistor, N, 50V, 220mA, SOT-23 | ON | VT1 | 1 | |
| 22 | 901-143-6RFX | SMA, Right Angle | Amphenol | X8, X9 | 2 | |
| 23 | 105017-0001 | USB_micro_B type | Molex | X12 | 1 | |
| 24 | BLM18GG471SN1 | Ferrite Bead, 470 Ohm, 25%, 0.2A (1 Ohm), 0603 | Murata | Z8 | 1 | |
| 25 | TA0549A | Filter, SAW, 1575.5 MHz, BW 13 MHz, 3.0x3.0mm | TAI-SAW | Z9 | 1 | |
| 26 | TA0836A | Filter, SAW, 1237 MHz, BW 40 MHz, 3.0x3.0mm | Golledge Electronic | Z10 | 1 | |
| 27 | 7B-8.000MAAJ-T | Crystal, quartz, 8 MHz, ±30ppm, 18pF, SMD 5x3.2mm | TXC | ZQ1 | 1 | |
| | | | | | | |
| | 11DE | HTMP.464337.334 | | | | |
| 1 | GJM1555C1H3R3CB01D | 3.3pF, ±0.25pF, 50V, 0402, C0G | Murata | C18 | 1 | |
| 2 | LQG15HS12NG02D | 12nH, 2%, 0.5A, 0402 | Murata | L6 | 1 | |
| 3 | PLS-4 | 4x1, 2.54mm | | XP9, XP10 | 2 | |
| 4 | PLS-6 | 6x1, 2.54 mm | | XP14 | 1 | |
| 5 | TA1785A | Filter, SAW, TA1785AMHz, BW 47 MHz, 3.0x3.0mm | TAI-SAW | Z9 | 1 | |
| 6 | TA1104A | Filter, SAW, 1199MHz, BW 108 MHz, 3.1x3.1mm | TAI-SAW | Z10 | 1 | |