

STEVAL-IDS001V2

| Quantity | Designator | Value | Type | Range | Tol | Footprint | Mnf | Part number | Frequency |
|----------|--|---------------------|-------------|-------------|--------|-------------------|------------|--------------------|-----------|
| 1 | ANT1 | 315/433/868/915 MHz | ANTENNA_2 | | | ANTENNAAM11DGST01 | Mitsubishi | | |
| 3 | C1, C24, C25 | 1uF | Ceramic X5R | 10V | ±10% | SMD 0402 | Murata | GRM155R61A105KE15D | |
| 1 | C2 | 100pF | Ceramic C0G | 50V | ±5% | SMD 0402 | Murata | GRM1555C1H101JZ01D | |
| 2 | C3, C7 | 330pF | Ceramic C0G | 50V | ±5% | SMD 0402 | Murata | GRM1555C1H331JA01D | |
| 10 | C4, C6, C21, C22, C23, C28, C29, C30, C32, C33 | 100nF | Ceramic X7R | 16V | ±10% | SMD 0402 | Murata | GRM155R71C104KA88D | |
| 1 | C5 | 1uF | Ceramic X5R | 10V | ±10% | SMD 0402 | Murata | GRM155R61A105KE15D | 315 |
| 1 | | 1uF | Ceramic X5R | 10V | ±10% | SMD 0402 | Murata | GRM155R61A105KE15D | 433 |
| 1 | | 470nF | 10V | Ceramic X5R | ±10% | SMD 0402 | Murata | GRM155R61A474KE15D | 868 |
| 1 | | 1uF | Ceramic X5R | 10V | ±10% | SMD 0402 | Murata | GRM155R61A105KE15D | 915 |
| 1 | C8 | 1.8pF | Ceramic C0G | 16V | ±0.1pF | SMD 0402 | Murata | GRM1555C1H1R8BA01D | 315 |
| 1 | | 1.8pF | Ceramic C0G | 16V | ±0.1pF | SMD 0402 | Murata | GRM1555C1H1R8BA01D | 433 |
| 1 | | 1 pF | Ceramic C0G | 16V | ±0.1pF | SMD 0402 | Murata | GRM1555C1H1R0BA01D | 868 |
| | | Not Mounted | | | | SMD 0402 | Murata | | 915 |
| 1 | C10 | 1.2pF | Ceramic C0G | 50V | ±0.1pF | SMD 0402 | Murata | GRM1555C1H1R2BA01D | 315 |
| | | Not Mounted | | | | SMD 0402 | Murata | | 433 |
| | | Not Mounted | | | | SMD 0402 | Murata | | 868 |
| | | Not Mounted | | | | SMD 0402 | Murata | | 915 |
| 1 | C11 | 12pF | Ceramic C0G | 50V | ±5% | SMD 0402 | Murata | GRM1555C1H120JZ01D | 315 |
| 1 | | 8.2pF | Ceramic C0G | 50V | ±0.1pF | | Murata | GRM1555C1H8R2BA01D | 433 |
| | | Not Mounted | | | | | Murata | | 868 |
| 1 | | 7pF | Ceramic C0G | 50V | ±0.5pF | | Murata | GRM1555C1H7R0DZ01D | 915 |
| 1 | C12 | 27pF | Ceramic C0G | 50V | ±5% | SMD 0402 | Murata | GRM1555C1H270JZ01D | 315 |
| 1 | | 18pF | Ceramic C0G | 50V | ±5% | | Murata | GRM1555C1H180JZ01D | 433 |
| 1 | | 8.2pF | Ceramic C0G | 50V | ±0.1pF | | Murata | GRM1555C1H8R2BA01D | 868 |
| | | 2.4pF | Ceramic C0G | 16V | ±0.1pF | SMD 0402 | Murata | GRM1555C1H2R4DZ01 | 915 |
| 1 | C13 | 15pF | Ceramic C0G | 50V | ±5% | SMD 0402 | Murata | GRM1555C1H150JZ01D | 315 |
| 1 | | 10pF | Ceramic C0G | 50V | ±5% | | Murata | GRM1555C1H100JZ01D | 433 |
| 1 | | 2.2pF | Ceramic C0G | 50V | ±0.1pF | | Murata | GRM1555C1H2R2BA01D | 868 |
| 1 | | 3.6pF | Ceramic C0G | 50V | ±0.1pF | | Murata | GRM1555C1H3R6BA01D | 915 |
| 1 | C14 | 220pF | Ceramic C0G | 50V | ±5% | SMD 0402 | Murata | GRM1555C1H221JA01D | 315 |
| 1 | | 220pF | Ceramic C0G | 50V | ±5% | | Murata | GRM1555C1H221JA01D | 433 |
| 1 | | 220pF | Ceramic C0G | 50V | ±5% | | Murata | GRM1555C1H221JA01D | 868 |

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|---|---------------|--------------|-------------|---------------|---------|-------------|-----------|--------------------|-----|
| 1 | | 330pF | Ceramic C0G | 50V | ±5% | | Murata | GRM1555C1H331JA01D | 915 |
| 1 | C15 | 4.7pF | Ceramic C0G | 50V | ±0.1pF | SMD 0402 | Murata | GRM1555C1H4R7BA01D | 315 |
| 1 | | 3.3pF | Ceramic C0G | 50V | ±0.25pF | | | GRM1555C1H3R3CZ01D | 433 |
| 1 | | 1.8pF | Ceramic C0G | 50V | ±0.1pF | | | GRM1555C1H1R8BA01D | 868 |
| 1 | | 1.5pF | Ceramic C0G | 50V | ±0.1pF | | | GRM1555C1H1R5BA01D | 915 |
| 2 | C9, C16 | 220pF | Ceramic C0G | 50V | ±5% | SMD 0402 | Murata | GRM1555C1H221JA01D | |
| | C36 | Not mounted | | | | | | | |
| 1 | C17 | 12pF | Ceramic C0G | 50V | ±5% | SMD 0402 | Murata | GRM1555C1H120JZ01D | |
| 1 | C18 | 10pF | Ceramic C0G | 50V | ±5% | SMD 0402 | Murata | GRM1555C1H100JZ01D | |
| 1 | C20 | 3.9pF | Ceramic C0G | 50V | ±0.1pF | SMD 0402 | Murata | GRM1555C1H3R9BA01D | 315 |
| 1 | | 2.2pF | Ceramic C0G | 50V | ±0.1pF | | | GRM1555C1H2R2BA01D | 433 |
| 1 | | 2.2pF | Ceramic C0G | 50V | ±0.1pF | | | GRM1555C1H2R2BA01D | 868 |
| 1 | | 2pF | Ceramic C0G | 50V | ±0.1pF | | | GRM1555C1H2R0BA01D | 915 |
| 3 | C19, C34, C35 | 10nF | Ceramic X7R | 50V | ±10% | SMD 0402 | Murata | GRM155R71H103KA88D | |
| 1 | C26 | 2.2uF | Ceramic X5R | 6.3V | ±20% | SMD 0402 | Murata | GRM155R60J225ME95D | |
| 1 | C27 | 33nF | Ceramic X7R | 25V | ±10% | SMD 0402 | Murata | GRM155R71E333KA88D | |
| 1 | C31 | 10uF | Ceramic X5R | 4V | ±20% | SMD 0402 | Murata | GRM155R60G106ME44D | |
| 1 | CAV1 | Solder point | | | | CAV2P | | | |
| 1 | D1 | YELLOW LED | | | | LED_1 | | | |
| 1 | D2 | GREEN LED | | | | LED_1 | | | |
| 1 | D6 | BAT46ZFILM | | | | DIODE | | | |
| 1 | IC1 | M95640-RMC6 | | | | M95640-RMC6 | | | |
| 1 | J1 | USB A | | | | CON4_0 | | | |
| | J3 | Not mounted | | | | 4 HEADER_0 | | | |
| 1 | L1 | 10uH | | 100mA/600mOhm | ±20% | SMD 0805 | Murata | LQM21FN100M70L | |
| 1 | L2 | 270nH | | 110mA/4.9Ohm | ±5% | SMD 0402 | Murata | LQG15HSR27J02D | 315 |
| 1 | | 120nH | | 150mA/1.3Ohm | ±5% | | | LQG15HSR12J02D | 433 |
| 1 | | 27nH | | | | | Coilcraft | 0402CS-27N | 868 |
| 1 | | 27nH | | | | | Coilcraft | 0402CS-27N | 915 |
| 1 | L3 | 91nH | | 230mA/640mOhm | ±2% | SMD 0603 | Murata | LQW18AN91NG00D | 315 |
| 1 | | 30nH | | 420mA/230mOhm | ±2% | | | LQW18AN30NG00D | 433 |
| 1 | | 4.3nH | | 850mA/59mOhm | ±0.2nH | | | LQW18AN4N3C00D | 868 |
| 1 | | 8.7nH | | 650mA/110mOhm | ±0.5nH | | | LQW18AN8N7D00D | 915 |
| 1 | L4 | 390nH | | 80mA/6.2Ohm | ±5% | SMD 0603 | Murata | LQW18ANR39J00D | 315 |
| 1 | | 220nH | | 120mA/2.5Ohm | ±2% | | | LQW18ANR22G00D | 433 |

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| 1 | | 47nH | | 380mA/290mOhm | ±2% | | | LQW18AN47NG00D | 868 |
| 1 | | 39nH | | 400mA/260mOhm | ±2% | | | LQW18AN39NG00D | 915 |
| 1 | L5 | 220nH | | 120mA/3.77Ohm | ±5% | SMD 0402 | Murata | LQG15HSR22J02D | 315 |
| 1 | | 150nH | | 140mA/2.99Ohm | ±5% | | | LQG15HSR15J02D | 433 |
| 1 | | 100nH | | 150mA/1.25Ohm | ±5% | | | LQG15HSR10J02D | 868 |
| 1 | | 100nH | | 150mA/1.25Ohm | ±5% | | | LQG15HSR10J02D | 915 |
| 1 | L6 | 15nH | | 300mA/320mOhm | ±5% | SMD 0402 | Murata | LQG15HS15NJ02D | 315 |
| 1 | | 6.2nH | | 300mA/220mOhm | ±0.3nH | | | LQG15HS6N2S02D | 433 |
| 1 | | 3.3nH | | 300mA/150mOhm | ±0.3nH | | | LQG15HS3N3S02D | 868 |
| | | Not Mounted | | | | | | | 915 |
| 1 | L7 | 33nH | | 420mA/230mOhm | ±5% | SMD 0603 | Murata | LQW18AN33NJ00D | 315 |
| 1 | | 16nH | | 550mA/160mOhm | ±2% | | | LQW18AN16NG00D | 433 |
| 1 | | 8.2nH | | 650mA/110mOhm | ±0.5nH | | | LQW18AN8N2D00D | 868 |
| 1 | | 7.5nH | | 750mA/82mOhm | ±0.5nH | | | LQW18AN7N5D00D | 915 |
| 1 | L8 | 12nH | | 300mA/280mOhm | ±5% | SMD 0402 | Murata | LQG15HS12NJ02D | 315 |
| 1 | | 8.2nH | | 300mA/240mOhm | ±5% | | | LQG15HS8N2J02D | 433 |
| 1 | | 3.0nH | | 300mA/170mOhm | ±0.3nH | | | LQG15HS3N0S02D | 868 |
| 1 | | 3.6nH | | 300mA/190mOhm | ±0.3nH | | | LQG15HS3N6S02D | 915 |
| 1 | L9 | 12nH | | 300mA/280mOhm | ±5% | SMD 0402 | Murata | LQG15HS12NJ02D | 315 |
| 1 | | 10nH | | 300mA/260mOhm | ±5% | | Murata | LQG15HS10NJ02D | 433 |
| 1 | | 0R | Resistor | | ±1% | | | | 868 |
| 1 | | 5.1nH | | | | | Murata | LQG15HN5N1S02 | 915 |
| 1 | L10 | 15nH | | 300mA/320mOhm | ±5% | SMD 0402 | Murata | LQG15HS15NJ02D | 315 |
| 1 | | 10nH | | 300mA/260mOhm | ±5% | | | LQG15HS10NJ02D | 433 |
| 1 | | 4.7nH | | 300mA/180mOhm | ±0.3nH | | | LQG15HS4N7S02D | 868 |
| 1 | | 0R | Resistor | | ±1% | | | | 915 |
| 1 | L11 | 39nH | | 200mA/650mOhm | ±5% | SMD 0402 | Murata | LQG15HS39NJ02D | 315 |
| 1 | | 27nH | | 300mA/460mOhm | ±5% | | | LQG15HS27NJ02D | 433 |
| 1 | | 18nH | | 300mA/360mOhm | ±5% | | | LQG15HS18NJ02D | 868 |
| 1 | | 18nH | | 300mA/360mOhm | ±5% | | | LQG15HS18NJ02D | 915 |
| | L12 | Not Mounted | | | | SMD 0402 | Murata | | 315 |
| | | Not Mounted | | | | | | | 433 |
| 1 | | 22nH | | 300mA/420mOhm | ±5% | | | LQG15HS22NJ02D | 868 |
| 1 | | 15nH | | 300mA/320mOhm | ±5% | | | LQG15HS15NJ02D | 915 |
| 1 | L13 | 47nH | | 200mA/720mOhm | ±5% | SMD 0402 | Murata | LQG15HS47NJ02D | 315 |

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|---|-------------------------------|----------------|----------------------|---------------|-----|---------------------------------------|--|----------------|-----|
| 1 | | 39nH | | 200mA/650mOhm | ±5% | | | LQG15HS39NJ02D | 433 |
| 1 | | 18nH | | 300mA/360mOhm | ±5% | | | LQG15HS18NJ02D | 868 |
| 1 | | 15nH | | 300mA/320mOhm | ±5% | | | LQG15HS15NJ02D | 915 |
| 2 | L14, L15 | 0.6 Ohm 300 mA | | | | SMC0402 | | | |
| 1 | P1 | Not mounted | Header 6 | | | HDR1X6 | | | |
| 1 | R1 | 1k5 | R_0 | | | SMR0402 | | | |
| 1 | R2 | 100k | R_0 | | | SMR0402 | | | |
| 7 | R5, R6, R7, R9, R10, R15, R19 | 10k | R_0 | | | SMR0402 | | | |
| 2 | R12, R13 | 680 | R_0 | | | SMR0402 | | | |
| 1 | R14 | 0R | R_0 | | | SMR0402 | | | |
| 2 | SW1, SW2 | PUSHBUTTON | SW PUSHBUTTON-DPST 0 | | | PUSHKMR22 | | | |
| 1 | U1 | STM32L151CUB6 | STM32L152CUB6 | | | UQFPN48_7_7_0.5 | | | |
| 1 | U2 | SPIRIT1 | SPIRIT1_1 | | | QFN20X4X4 | | | |
| 1 | U3 | USBLC6-2P6 | LD3985M18R_1 | | | SOT666 | | | |
| 1 | U4 | LDS3985PU33R | LDS3985PU33R0 | | | DFN6D3X3 | | | |
| 1 | U5 | SMM4F50A | SMM4F500A | | | DO222AA | | | |
| 1 | U6 | U.FL connector | U_0.FL connector | Not mounted | | U-FLR-SMT | | | |
| 1 | Y1 | NX2016SA-52MHZ | NX3225GA_0 | | | NX2016SA 52MHZ S1-4085-2008-8(IEC) | | | |
| 1 | Y2 | 8MHz | CSTCE8M00G55-R0 | | | CSTCE8M00G55-R0 | | | |