

Bill of Material for STEVAL-IHM021V2

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| Document reference: STEVAL-IHM021V1 | PCB reference: STEVAL-IHM021V2 |
| Company: STMicroelectronics | |

| Index | Quantity | Reference | Value / Generic Part Number | Package | Manufacturer | Manufacturer's ordering code / Orderable Part Number | Supplier | Supplier's ordering code |
|-------|----------|--|---|------------|--------------|--|----------|--------------------------|
| 1 | 3 | C1, C3, C21 | Capacitor ceramic 330pF 50V NP0 | 0603 | | | IFARCAD | |
| 2 | 1 | C2 | Capacitor electrolyte 3.3uF 50V | CASE B SMD | | | IFARCAD | |
| 3 | 6 | C4,C8,C16,C20,C26, C30 | Capacitor ceramic 470nF 25V X7R | 0805 | | | IFARCAD | |
| 4 | 6 | C7,C14,C19,C24, C29,C33 | Capacitor ceramic 1nF 50V X7R | 0603 | | | IFARCAD | |
| 5 | 12 | C5, C6, C9:C12, C22, C17, C18, C27, C28, C31 | Capacitor ceramic 10pF 50V NP0 | 0603 | | | IFARCAD | |
| 6 | 3 | C13, C23, C32 | Capacitor ceramic 33pF 50V NP0 | 0603 | | | IFARCAD | |
| 7 | 3 | C25, C48, C49 | Capacitor ceramic 100nF 50V X7R | 0603 | | | IFARCAD | |
| 8 | 3 | C34:C36 | Capacitor ceramic | 0603 | | | IFARCAD | |
| 9 | 1 | C37 | Capacitor ceramic 10nF 50V X7R | 0805 | | | IFARCAD | |
| 10 | 1 | C38 | Capacitor electrolyte 100uF 400V SNAP-IN 105° | 25x25 p.10 | | | IFARCAD | |
| 11 | 1 | C39 | Capacitor ceramic 47nF 25V X7R | 0603 | | | IFARCAD | |
| 12 | 1 | C40 | Capacitor ceramic 220nF 50V X7R | 0805 | | | IFARCAD | |
| 13 | 1 | C41 | Capacitor electrolyte 10uF 25V X7R | CASE B SMD | | | IFARCAD | |
| 14 | 1 | C42 | Capacitor ceramic 22nF 50V X7R | 0805 | | | IFARCAD | |
| 15 | 1 | C43 | Capacitor electrolyte 100uF 25V | CASE D SMD | | | IFARCAD | |
| 16 | 2 | C44, C45 | Capacitor ceramic 100nF 50V X7R | 0603 | | | IFARCAD | |
| 17 | 6 | D2, D3, D6, D7, D10, D11 | Diode L4148 | SOD80 | | | IFARCAD | |
| 18 | 8 | D13, D14, D15, D19, D26, D27, D30, D32 | Diode BAR43C | SOT23 | ST | | IFARCAD | |
| 19 | 4 | D16, D17, D18, D20 | Diode SMBYT01-400 | SMB | | | IFARCAD | |
| 20 | 1 | D21 | Diode BAT54W | SOT323 | | | IFARCAD | |
| 21 | 2 | D22, D23 | Diode STTH1L06A | SMA | | | IFARCAD | |
| 22 | 1 | D24 | Diode SMAJ18A-TR | DO214AC | | | IFARCAD | |
| 23 | 1 | F1 | Fuse 2A | P. 5 | | | IFARCAD | |
| 24 | 1 | | Fuse socket | p. 5 | | | IFARCAD | |
| 25 | 3 | JP1, JP2, JP3 | Jumper 2x1 open | SMD | | | IFARCAD | |
| 26 | 3 | J1, J4, J6 | L6390 | SO16 | ST | | IFARCAD | |
| 27 | 1 | J2 | Strip 3x1 | P 2.54 | | | IFARCAD | |
| 28 | 4 | | | | | | IFARCAD | |
| 29 | 1 | J3 | Connector flat 34 poli (17x2) black male | P 2.54 | | | IFARCAD | |
| 30 | 1 | J5 | Connector female | SMD | | | IFARCAD | |

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|----|----|--|-------------------------------|----------|----|--|---------|
| 31 | 2 | J7, J10 | Two screw terminal strip | P 5.08 | | | IFARCAD |
| 32 | 1 | J8 | Strip 2x1 | P 2.54 | | | IFARCAD |
| 33 | 1 | J9 | Three screw terminal strip | P 5.08 | | | IFARCAD |
| 34 | 1 | L1 | Radial inductance 2.2mH 0.14A | Diam 7.2 | | | IFARCAD |
| 35 | 1 | NTC1 | NTC 10K | 1206 | | | IFARCAD |
| 36 | 1 | NTC2 | NTC 5R | THT | | | IFARCAD |
| 37 | 6 | Q1:Q6 | Mosfet STD5N52U | DPAK | ST | | IFARCAD |
| 38 | 1 | Q7 | Transistor BC817-25 | SOT23 | | | IFARCAD |
| 39 | 3 | R1, R26, R47 | Resistor 100K 1% | 0603 | | | IFARCAD |
| 40 | 7 | R3, R13, R28,R33, R48, R53, R85 | Resistor 0R 1% | 0603 | | | IFARCAD |
| 41 | 6 | R4,R14,R29,R34,R49, R54 | Resistor 50R | 0603 | | | IFARCAD |
| 42 | 3 | R5, R6, R7 | Resistor | 0805 | | | IFARCAD |
| 43 | 4 | R18, R23, R37, R44, R55, R63 | Resistor | 0603 | | | IFARCAD |
| 44 | 7 | R9, R10, R15, R16, R36, R58, R68 | Resistor 4.7K 1% | 0603 | | | IFARCAD |
| 45 | 3 | R11, R31, R51 | Resistor 3K3 1% | 0603 | | | IFARCAD |
| 46 | 3 | R12, R32, R52 | Resistor 47K 1% | 0603 | | | IFARCAD |
| 47 | 6 | R17, R19, R38, R39, R56, R57 | Resistor 2.7K 1% | 0603 | | | IFARCAD |
| 48 | 16 | R20, R24, R40, R42, R59, R60, R65:R67, R71, R73, R86:R90 | Resistor 1K 1% | 0603 | | | IFARCAD |
| 49 | 6 | R21, R22, R41, R43, R61, R62 | Resistor 910R | 0603 | | | IFARCAD |
| 50 | 12 | R25, R45, R64, R76:R84 | Resistor 1.8R 1/4W | 1206 | | | IFARCAD |
| 51 | 2 | R35, R100 | Resistor 10K 1% | 0603 | | | IFARCAD |
| 52 | 2 | R69, R70 | Resistor 470K 1% 1/4W | 1206 | | | IFARCAD |
| 53 | 1 | R75 | Resistor 8K2 1% | 0603 | | | IFARCAD |
| 54 | 1 | U1 | L78L33ABUTR | SOT89 | ST | | IFARCAD |
| 55 | 1 | U2 | VIPER12AS | SO8 | ST | | IFARCAD |
| 56 | 1 | Z1 | Diode Zener BZX84C15 | SOT23 | | | IFARCAD |