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| PROJECT | 2017-3047 (NOTECARRIER-M2-AE) |
| REVISION | 14 |
| SCHEMATIC | 20173047_NOTECARRIER-M2-AE_V14 |
| DATA | 09/04/2020 |

Blues Inc

| Item | Quantity | Reference | Part | MPN | Description | Temperature | Distributor | Type | Package | Database |
|------|----------|------------------|---------------------|---------------------|---------------------------------------------------------------------------------------------------|--------------|-------------|------|----------------------------------|----------|
| 1 | | ANT1 | W3796 | W3796 | ANTENNA CHIP LTE D=40X70 W3796 PULSE SMT | -40°...+85° | FAE | SMD | ANT-W3796 | 43880 |
| 2 | | ANT2 | W3010 | W3010 | ANTENNA CHIP 1.575GHZ D=3.2X10X2 W3010 PULSE SMT | -40°...+85° | FAE | SMD | ANT-W3010 | 43082 |
| 3 | 1 | CS1 | CS V14 4L 35um | | C.S. NOTECARRIER-M2-AX V14 (75X60mm 4L ISO/SR ENIG TG150 sp=1.6mm Cu=35um) (CONTROLLED IMPEDANCE) | TG150 | WE | | | |
| 4 | 1 | C1 | 47u/16V-XSR | | CHIP CAP.CER. 47uF 16V 20% XSR 1206 | | FAE | SMD | CS-C-1206 | 38401 |
| 5 | 1 | C2 | 4.7u/6.3V-XSR | | CHIP CAP.CER. 4.7uF 6.3V 20% XSR 0402 | | FAE | SMD | CS-C-0402 | 32468 |
| 6 | 2 | C3,C4 | 10u/10V-XSR | | CHIP CAP.CER. 10uF 10V 10% XSR 0603 | | FAE | SMD | CS-C-0603 | 28168 |
| 7 | | C5,C6,C9,C10,C23 | 100n/16V | | CHIP CAP.CER. 100nF 16V 10% XTR 0402 | | FAE | SMD | CS-C-0402 | 22452 |
| 8 | 2 | C7,C8 | 10u/6.3V-XSR | | CHIP CAP.CER. 10uF 6.3V 20% XSR 0402 | -55°...+85° | FAE | SMD | CS-C-0402 | 38310 |
| 9 | 1 | C11 | 100n/16V | | CHIP CAP.CER. 100nF 16V 10% XTR 1206 | | FAE | SMD | CS-C-1206 | 28470 |
| 10 | 1 | C20 | 0.5p/50V-COG | | CHIP CAP.CER. 0.5pF 50V ±0.25pF COG 0402 | -55°...+125° | FAE | SMD | CS-C-0402 | 47779 |
| 11 | 1 | C21 | 1n/50V | | CHIP CAP.CER. 1nF 50V 10% XTR 0402 | | FAE | SMD | CS-C-0402 | 33357 |
| 12 | 1 | C22 | 1u/16V-XSR | | CHIP CAP.CER. 1uF 16V 10% XSR 0402 | | FAE | SMD | CS-C-0402 | 37485 |
| 13 | 1 | C24 | 3.3p/50V-COG | | CHIP CAP.CER. 3.3pF 50V 5% COG 0402 | -55°...+125° | FAE | SMD | CS-C-0402 | 30330 |
| 14 | 1 | DS2 | FSV1045V | FSV1045V | DIOODO SCHOTTKY 10A 45V FSV1045V TQ277-3 SMT | -55°...+150° | FAE | SMD | TQ277-3 | 42269 |
| 15 | 1 | DS4 | STPS3H100U | STPS3H100U | DIOODO SCHOTTKY 3A 100V STPS3H100U SMB SMT | | FAE | SMD | SMB | 40665 |
| 16 | 1 | F1 | SF-0603F150-2 | SF-0603F150-2 | FUSIBILE RAPIDO 1.5A 32V 0603 SF-0603F150-2 BOURNS SMT | -40°...+105° | FAE | SMD | SF-0603 | 32505 |
| 17 | 1 | F2 | 3.5A/32V | 0603SFV350F/32-2 | FUSIBILE RAPIDO 3.5A 32V 0603 0603SFV350F/32-2 LITTELFUSE SMT | -55°...+125° | FAE | SMD | SF-0603 | 40054 |
| 18 | 1 | J2 | 10118192-0002LF | 10118192-0002LF | CONN. USB F/90° TIPO MICRO-B C.S. 10118192-0002LF FCI SMT | -30°...+80° | FAE | SMD | J-5-0065-FOS-u/USB10118192-NOFLG | 47781 |
| 19 | 1 | J6 | MDT420E01001 | | CONN. M.2 75P M/90° P=0.5 MDT420E01001 AMPHENOL SMT | -40°...+80° | FAE | SMD | J-75-0050-MOS-M2-E | 44633 |
| 20 | 2 | J7,J8 | uFL-R-SMT-1-10 | U.FL-R-SMT-1(10) | CONN. RF M.U.FL-R-SMT-1(10) HIROSE SMT | -40°...+90° | FAE | SMD | J-3-MDS-UFL | 28096 |
| 21 | 1 | L1 | XFL4020-222MEC | XFL4020-222MEC | INDUTTANZA 2.2 uH 3.1A 20% XFL4020-222MEC COILCRAFT SMT | -40°...+125° | FAE | SMD | LS-XFL4020 | 42400 |
| 22 | 1 | L2 | 1285AS-H-2R2M-P2 | 1285AS-H-2R2M-P2 | INDUTTANZA 2.2uH 1.5A 20% 0806 1285AS-H-2R2M-P2 MURATA SMT | -40°...+85° | FAE | SMD | LS-0806 | 42807 |
| 23 | 1 | L3 | 0603CS-4N3XJLW | 0603CS-4N3XJLW | INDUTTANZA 4.3nH 0.7A 5% 0603 0603CS-4N3XJLW COILCRAFT SMT | -40°...+125° | FAE | SMD | LS-0603CS | 47784 |
| 24 | 1 | L4 | 0603CS-6N8XJLU | 0603CS-6N8XJLU | INDUTTANZA 6.8nH 0.7A 5% 0603 0603CS-6N8XJLU COILCRAFT SMT | -40°...+125° | FAE | SMD | LS-0603CS | 43078 |
| 25 | 1 | L5 | LQW15AN7NSH00D | LQW15AN7NSH00D | INDUTTANZA 7.5nH 0.57A 3% A FILO 0402 LQW15AN7NSH00D MURATA SMT | -55°...+125° | FAE | SMD | LS-0402 | 43079 |
| 26 | 1 | OBJ1 | 9774025151R | | DISTANZ. CIL. METALLO 5.1X2.5 9774025151R W.E SMT | | FAE | SMD | DIST-WASMSIM0250 | 44635 |
| 27 | 1 | Q1 | AQ3420 | | TRANSISTOR MOSFET N AQ3420 SOT-23 ALPHA-OMEGA SMT | -55°...+150° | FAE | SMD | SOT23 | 41965 |
| 28 | 2 | RR1,RR2 | 100R/5% | | RETE RESISTIVA 8R sing. 100R 5% 1508 CAY16-101JBLF BOURNS SMT | -55°...+125° | FAE | SMD | RR-8X-1508 | 40082 |
| 29 | 1 | R1 | 10M/5% | | CHIP RES. 10M 0402 1/8W 5% | -55°...+125° | FAE | SMD | RS-0402 | 37511 |
| 30 | 1 | R4 | 82k | | CHIP RES. 82K 0402 1/16W 1% | -55°...+155° | FAE | SMD | RS-0402 | 40683 |
| 31 | 1 | R5 | 1M | | CHIP RES. 1M 1206 1/4W 1% | | FAE | SMD | RS-1206 | 28883 |
| 32 | 1 | R18 | 200k | | CHIP RES. 200K 0402 1/16W 1% | | FAE | SMD | RS-0402 | 27068 |
| 33 | 1 | R21 | 1k | | CHIP RES. 1K 0402 1/16W 1% | -55°...+155° | FAE | SMD | RS-0402 | 25126 |
| 34 | 1 | R22 | 10k | | CHIP RES. 10K 0402 1/16W 1% | | FAE | SMD | RS-0402 | 25127 |
| 35 | 1 | SW1 | CJS-1200TA | | INTERR. SLITTA ON-ON DA C.S. CJS-1200TA NIDEC COPAL ELECTRONICS SMT | -40°...+85° | FAE | SMD | SW-CJS1200TA | 43627 |
| 36 | 1 | TVS1 | SM6T6V8A | | DIOODO TVS TRANSIL UNIDIR. 600W 6.8V SM6T6V8A SMB SMT | | FAE | SMD | SMB | 14165 |
| 37 | 1 | UI1 | TPS82748VFPT | TPS82748VFPT | INTEGRATO TPS82748VFPT TEXAS DSBG48 SMT | -40°...+85° | FAE | SMD | XFPC48 | 42813 |
| 38 | 1 | U2 | MAX1723SELT | MAX1723SELT-T | INTEGRATO MAX1723SELT-T MAXIM W-QFN6 SMT | -40°...+85° | FAE | SMD | WQFN6-Q200X200 | 42404 |
| 39 | 1 | U5 | BGA72SL6E8327F-TSA1 | BGA72SL6E8327F-TSA1 | INTEGRATO BGA72SL6E8327F-TSA1 INFINEON TSLP-6 SMT | -40°...+125° | FAE | SMD | XFDFN6 | 43081 |
| 47 | | | | | | | 1 | | | |

MECHANICAL

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|---|---|-----------|------------------|--|---------------------------------------------------------------------------|--|-----|-----|--|-------|
| 1 | 1 | ASS1 | KNOB M2.5x4-INOX | | VITE TCEI 2.5X4 ESAGONO INCASSATO A2 INOX | | FAE | THT | | 48286 |
| 2 | 2 | ASS2,ASS3 | uFL 50mm | | CAVO COAX uF-uF1 415-0086-050 HIROSE CINCH CONNECTIVITY SOLUTIONS JOHNSON | | FAE | THT | | 45152 |
| 3 | | | | | | | 0 | | | |

NOT MOUNTED

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| 1 | 1 | BAT1 | NU | 2464 | PORTA BATTERIA 2464 KEYSTONE | | FAE | THT | BATHLD-2464 | 45254 |
| 2 | 1 | C12 | NU | | CHIP CAP.CER. 10uF 25V XSR 10% 1206 | | FAE | SMD | CS-C-1206 | 21513 |
| 3 | 1 | C13 | NU | | CHIP CAP.CER. 1uF 16V 10% XSR 0402 | | FAE | SMD | CS-C-0402 | 37485 |
| 4 | 3 | C14,C15,C16 | NU | | CHIP CAP.CER. 100nF 16V 10% XTR 0402 | | FAE | SMD | CS-C-0402 | 22452 |
| 5 | 3 | C17,C18,C19 | NU | | CHIP CAP.CER. 33pF 50V 5% COG 0402 | | FAE | SMD | CS-C-0402 | 38594 |
| 6 | 2 | DS3,DS6 | NU | FSV1045V | DIOODO SCHOTTKY 10A 45V FSV1045V TQ277-3 SMT | -55°...+150° | FAE | SMD | TQ277-3 | 42269 |
| 7 | 1 | DS5 | NU | STPS3H100U | DIOODO SCHOTTKY 3A 100V STPS3H100U SMB SMT | | FAE | SMD | SMB | 40665 |
| 8 | 2 | FD1,FD2 | TPS | | FIDUCIAL | | FAE | SMD | FIDUCIAL | |
| 9 | 1 | J1 | NU | 114020163 | CONN. GROVE 4P M/D P=2 114020163 SEEDSTUDIO SMT | | FAE | SMD | J-4-Q200-MDS-GROVE | 47910 |
| 10 | 2 | J3,J4 | NU | 828-PH-SM4-T8TLF[IGN] | CONN. PH 2P M/D P=2 828-PH-SM4-T8TLF[IGN] JST SMT | -25°...+85° | FAE | SMD | J-2-Q200-MDS-828-PH-SM4 | 36983 |
| 11 | 1 | J5 | NU | SF725006VBAR2500 | SF725006VBAR2500 JAE ELECTRONICS SMT | -25°...+85° | FAE | SMD | J-NANOSIM-SF725006VBA | 41049 |
| 12 | 1 | J9 | NU | CES-122-01-T-S | STRIP 22P F/D P=2.54 H=5.08 CES-122-01-T-S SAMTEC | -55...+105 | D-SAM1087-22-ND | THT | J-22-0254-FDT-H0508_EDGE | |
| 13 | 1 | J10 | NU | CES-103-01-T-S | STRIP 3P F/D P=2.54 H=5.08 CES-103-01-T-S SAMTEC | -55...+105 | D-SAM1087-03-ND | THT | J-3-0254-FDT-H0508 | |
| 14 | 2 | PAD1,PAD2 | TPS | | CASTELATED EDGE VIAS | | FAE | THT | PAD-THT-CAS-0100 | |
| 15 | 1 | Q2 | NU | | TRANSISTOR MOSFET P BSS84AKM.315 SOT883 SMT | -55°...+150° | FAE | SMD | UPDFN3 | 40358 |
| 16 | 3 | R6,R8,R10 | NU | | CHIP RES. 10K 0402 1/16W 1% | -55°...+125° | FAE | SMD | RS-0402 | 25129 |
| 17 | 1 | R9 | NU | | CHIP RES. 470R 0402 1/16W 1% | | FAE | SMD | RS-0402 | 25128 |
| 18 | 2 | R11,R13 | NU | | CHIP RES. 100R 0402 1/16W 1% | | FAE | SMD | RS-0402 | 26315 |
| 19 | 3 | R12,R14,R15 | NU | | CHIP RES. 22R 0603 1/16W 1% | | FAE | SMD | RS-0603 | 20385 |
| 20 | 2 | R16,R23 | NU | | CHIP RES. 15K 0402 1/16W 1% | -55°...+155° | FAE | SMD | RS-0402 | 40387 |
| 21 | 2 | R17,R24 | NU | | CHIP RES. 100K 0402 1/16W 1% | | FAE | SMD | RS-0402 | 25127 |
| 22 | 1 | TVS2 | NU | | DIOODO TVS TRANSIL UNIDIR. 20W 5V ESOLCSV0M5-TP SOT563 SMT | -65°...+150° | FAE | SMD | SOT666 | 44643 |
| 23 | 1 | U3 | NU | BQ24210DQCT | INTEGRATO BQ24210DQCT WSON10 TEXAS SMT | -40°...+85° | D-296-28738-1-ND | SMD | WSON10-EXP | |
| 24 | 1 | U4 | NU | TXS0102DQER | INTEGRATO TXS0102DQER TEXAS XFDFN8 SMT | -40°C...+85°C | FAE | SMD | XFDFN8 | 38192 |