

## CONFIDENTIAL

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| <br>E · LOGICITY <sup>SM</sup> | <div style="text-align: right;">  </div><br>2nd Level - Bill of Materials for EJ Seal\NEC\315MHz\32kHz |
|-----------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

| S/N  | Description                                         | Manufacturer Part No.       | P-SERV P/N        | Designator | Footprint | Qty |
|------|-----------------------------------------------------|-----------------------------|-------------------|------------|-----------|-----|
| # 1  | BARE PRINTED CIRCUIT BOARD, DOUBLE SIDED, FR4 #0046 | ESTEC C/O KAINOS            | PCB-P008-011-0046 | -----      | -----     | 1   |
| 2    | CHIP RES 15 OHMS<br>1/10W $\pm$ 5%                  | OPEN SOURCE                 | RES030303-0344    | R7         | SMT 0603  | 1   |
| 3    | CHIP RES 200 OHMS<br>1/10W $\pm$ 5%                 | OPEN SOURCE                 | RES030303-0345    | R3         | SMT 0603  | 1   |
| 4    | CHIP RES 1K OHMS<br>1/10W $\pm$ 5%                  | OPEN SOURCE                 | RES030303-0339    | R1         | SMT 0603  | 1   |
| 5    | CHIP RES 10K OHMS<br>1/10W $\pm$ 5%                 | OPEN SOURCE                 | RES030303-0340    | R2         | SMT 0603  | 1   |
| 6    | CHIP RES 22K OHMS<br>1/10W $\pm$ 5%                 | OPEN SOURCE                 | RES030303-0346    | R5, R6     | SMT 0603  | 2   |
| 7    | CHIP RES 47K OHMS<br>1/10W $\pm$ 5%                 | OPEN SOURCE                 | RES030303-0341    | R4         | SMT 0603  | 1   |
| 8    | CHIP RES 100K OHMS<br>1/10W $\pm$ 5%                | OPEN SOURCE                 | RES030303-0347    | R8         | SMT 0603  | 1   |
| 9    | CHIP CAP CERAMIC 1 pF<br>$\pm$ 0.25pF (NPO)         | OPEN SOURCE                 | CAP07030701-0100  | C8         | SMT 0603  | 1   |
| 10   | CHIP CAP CERAMIC 2 pF<br>$\pm$ 0.25pF (NPO)         | OPEN SOURCE                 | CAP07030701-0125  | C10        | SMT 0603  | 1   |
| 11   | CHIP CAP CERAMIC 4 pF<br>$\pm$ 5% (NPO)             | OPEN SOURCE                 | CAP07030703-0145  | C9         | SMT 0606  | 1   |
| 12   | CHIP CAP CERAMIC 5 pF<br>$\pm$ 5% (NPO)             | OPEN SOURCE                 | CAP07030703-0143  | C5, C6     | SMT 0603  | 2   |
| 13   | CHIP CAP CERAMIC<br>10pF $\pm$ 5% (NPO)             | OPEN SOURCE                 | CAP07030703-0104  | C4         | SMT 0603  | 1   |
| 14   | CHIP CAP CERAMIC<br>30pF $\pm$ 5% (NPO)             | OPEN SOURCE                 | CAP07030703-0142  | C1, C2     | SMT 0603  | 2   |
| 15   | CHIP CAP CERAMIC 100<br>pF $\pm$ 10% (NPO)          | OPEN SOURCE                 | CAP07030704-0144  | C11        | SMT 0603  | 1   |
| 16   | CHIP CAP CERAMIC 10<br>nF $\pm$ 10% (X7R)           | OPEN SOURCE                 | CAP07030704-0113  | C12        | SMT 0603  | 1   |
| 17   | CHIP CAP CERAMIC 100<br>nF $\pm$ 10% (X7R)          | OPEN SOURCE                 | CAP07040504-0112  | C3, C7     | SMT 0805  | 2   |
| 18   | CHIP IND 33 nH $\pm$ 5%<br>(10%)                    | OPEN SOURCE                 | IND070004-0039    | L1         | SMT 0805  | 1   |
| # 19 | SAW RESONATOR 315<br>MHz                            | HDR315-M JAG                | SAW020100-0006    | Y2         | TO39-3    | 1   |
|      |                                                     | R686 EPCOS                  |                   |            |           |     |
| # 20 | CRYSTAL HC-49/S 5MHz                                | AS-5.000-20-EXT<br>RALTRON  | CYS010100-0016    | Y1         | TH        | 1   |
|      |                                                     | L405000XFSD16XX HI-<br>TECH |                   |            |           |     |
|      |                                                     | XS-S-0290 RAKON             |                   |            |           |     |
|      |                                                     | 8C0500103T90QA01A JAG       |                   |            |           |     |

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|    |                                                   |                                     |                 |            |        |   |
|----|---------------------------------------------------|-------------------------------------|-----------------|------------|--------|---|
| 21 | IC MEMORY EEPROM<br>HT93LC46                      | HT93LC46-A (HOLTEK)                 | IC200004-0088   | U2         | SO8    | 1 |
|    |                                                   | 93LC46BT-1/SN<br>(MICROCHIP)        |                 |            |        |   |
|    |                                                   | S-93LC46ADJFJ-TB<br>(SEKIO)         |                 |            |        |   |
| 22 | NEC MCU<br>UPD78P9011GT                           | NEC MCU UPD78P9011GT                | IC000017-0138   | U1         | SOP28  | 1 |
| 23 | TRANSISTOR PNP<br>MMBT3906LT1 SOT23<br>(MOTOROLA) | MMBT3906LT1 SOT23<br>(MOTOROLA) PNP | TRAN040400-0012 | Q1         | SOT 23 | 1 |
| 24 | TRANSISTOR NPN<br>MMBT3904LT1 SOT23<br>(MOTOROLA) | NPN MMBT3904LT1<br>SOT23 (MOTOROLA) | TRAN050400-0007 | Q2         | SOT 23 | 1 |
| 25 | TRANSISTOR NPN<br>SOT23                           | BFR92A PHILIPS SOT23<br>NPN         | TRAN050400-0014 | Q3         | SOT 23 | 1 |
|    |                                                   | PNP MMBR901LT1 SOT23<br>(MOTOROLA)  |                 |            |        |   |
| 26 | ECS RETAINER RING                                 | EJB                                 | OL-002-0084     | J1, J2, J3 | -----  | 3 |