Messrs. Digi-Key

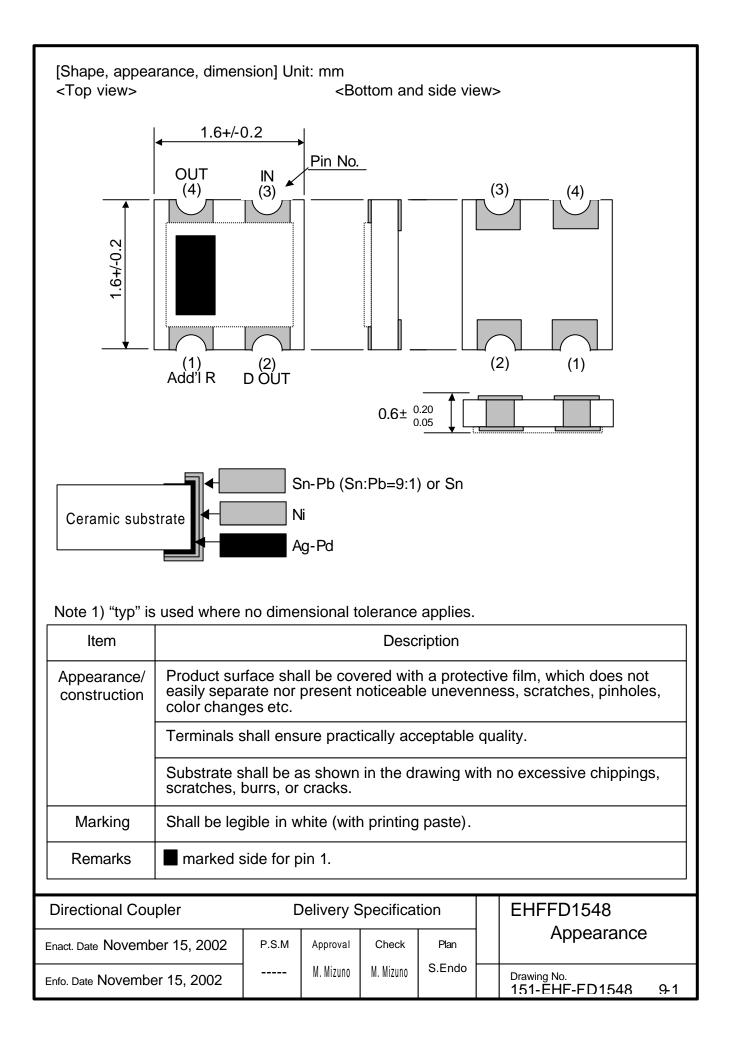
Issue No. : PC-02-051 Date of issue : November 15, 2002 Classification : ■ New □ Change □ Renewal

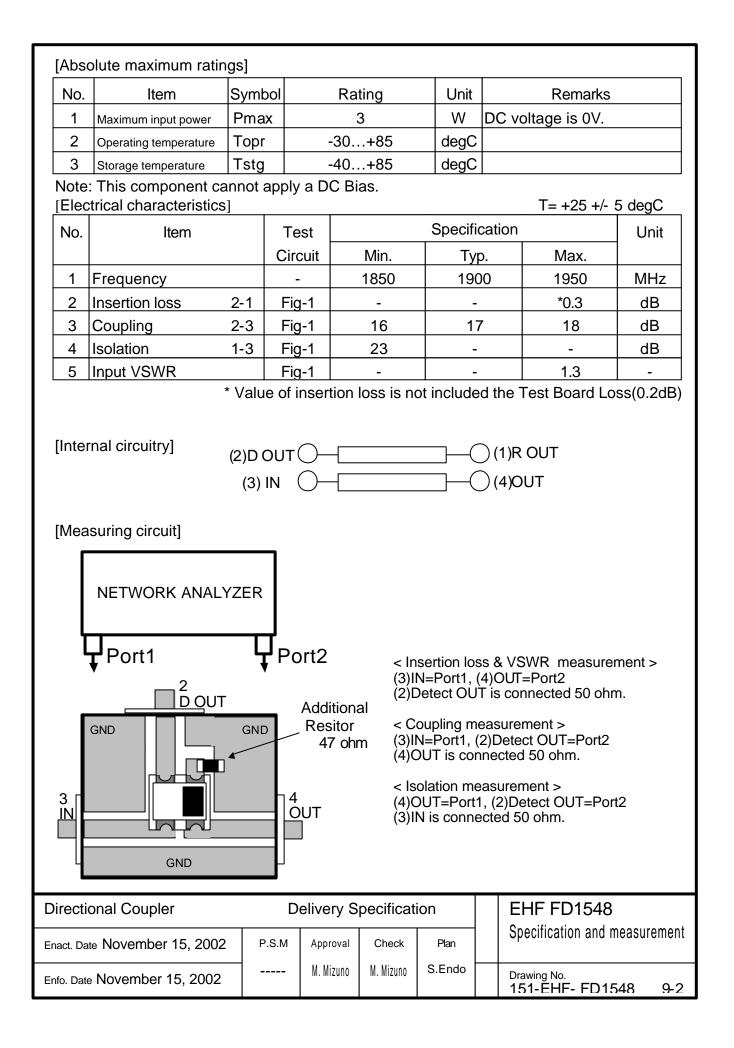
## **Delivery Specification**

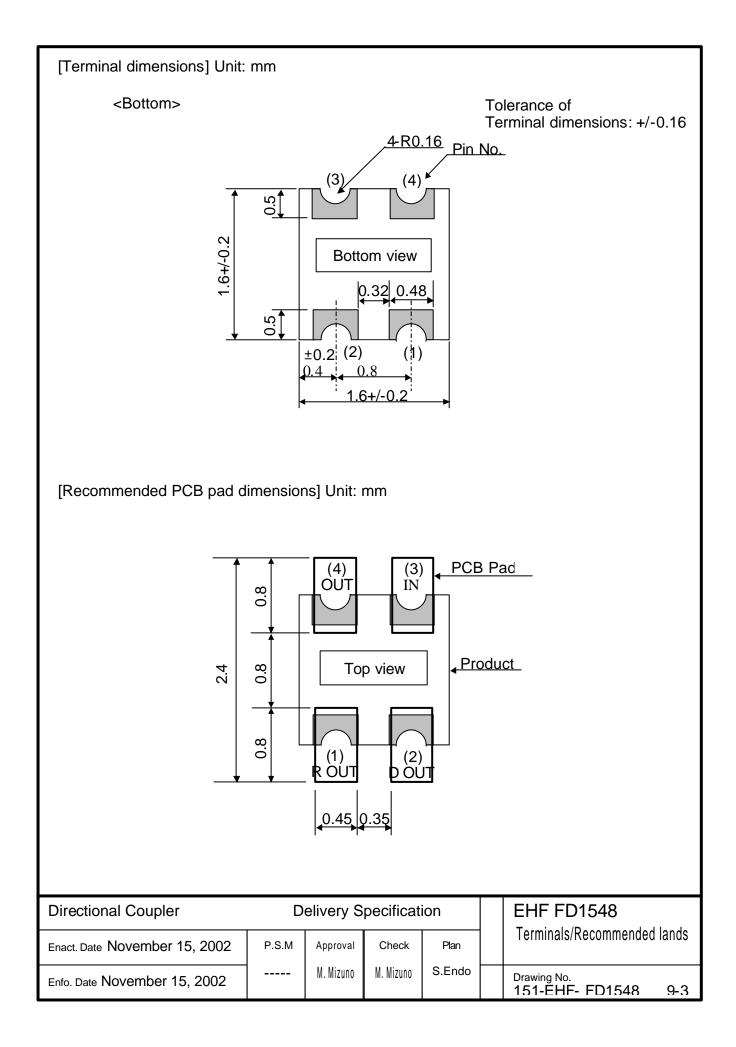
| Product Description    | : Directional Coupler                                       |
|------------------------|---|
| Product Part Number    | : EHFFD1548   |
| Classification of Spec | : Individual Product Specification                          |
| Applications           | : Cellular phone  |
|                        | For other applications, contact the undersigned in advance. |
| Term of Validity       | : November 14, 2007 from the date of issue.                 |

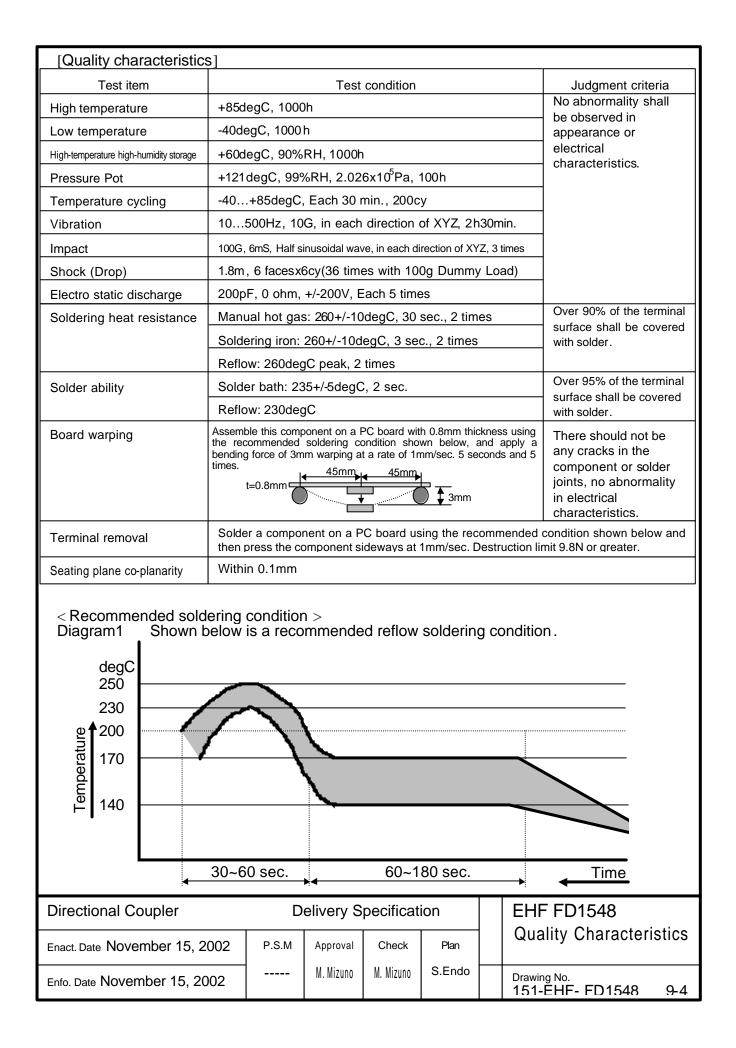
| CUSTOMER USE ONLY   | Receipt Record#: |  |
|---|------------------|--|
| This was certainly received by us.<br>1(one) copy is being returned to you. | Date of receipt: |  |
|   | Received by:     |  |
|   | Title:<br>Dept.: |  |

| Matsushita Electronic Components Co., Ltd.      |               |                          |
|---|---------------|--------------------------|
| Network Device Company                          | Prepared by   | : S.Endo                 |
| Module Strategic Business Unit                  | Checked by    | : M. Mizuno              |
| Engineering Group HFD Team                      |               |                          |
| 992-1 Aiba Ohno-cho Ibi-gun Gifu 501-0598 JAPAN | Authorized by | : M. Mizuno              |
| Tel: +81-0585-36-2322                           | Title         | : Manager of Engineering |
| Fax: +81-0585-36-2344                           |               | . Manager of Engineering |









## [Cautions for use]

| (1) Operating a product over the maximum rating for even a moment may result in  | а |
|--|---|
| product failure or breakage. Never use a product in such a condition that it may |   |
| cause a safety problem.  |   |

- (2) Opening or short-circuiting the product terminals or inserting a product in the reverse orientation while power is being supplied may cause a breakage. Always avoid such circumstances.
- (3) Operations in a corrosive gas atmosphere or improper environments such as hightemperature, high-humidity or dewy conditions may lead to product performance deterioration, a breakage, a change in appearance etc. Please avoid such conditions, as they are unsafe.
- (4) Always ground the soldering iron or soldering bath used for assembly operation to avoid any excessive voltage applied to a product.
- (5) After soldering with solder bridges, incomplete soldering or in the reverse orientation, supplying power may result in a product breakage. Please confirm the soldered condition before supplying power to the product.
- (6) Excessive stress on the terminals may cause a contact failure or performance deterioration. Please use caution.
- (7) Please provide a fail-safe provision in the product you design by taking any failure of our product into consideration.
- (8) This product does not include a DC-cutting device. Application of a DC Current may cause product deterioration or breakage.
  - \* If any question arises about the safety of this product, please contact us immediately with a request for an engineering examination.

## [Remarks]

- \*1: All of the materials used in this product are those listed as the existing chemical substances based on the "Law for examination and regulation of manufacture of chemical substances".
- \*2: The production process of this product does not use any ozone-depleting chemicals (OZC) regulated by the Montreal Protocol.
- \*3: Validity of this specification is 5 years from the date of issue, but the validity is considered on going unless any changes are made.

| Directional Coupler           | Delivery Specification |           |           |        | EHF FD1548                         |
|-------------------------------|------------------------|-----------|-----------|--------|------------------------------------|
| Enact. Date November 15, 2002 | P.S.M                  | Approval  | Check     | Plan   | Cautions                           |
| Enfo. Date November 15, 2002  |                        | M. Mizuno | M. Mizuno | S.Endo | Drawing No.<br>151-EHF- FD1548 9-5 |

| [Packaging m | naterials] |
|--------------|------------|
| 1. Materials | 1)         |

- 1) Embossed carrier tape (Refer to the attachment)
  2) Top tape: Anti-static
  3) Packaging box (Refer to the attachment)
  4) Packaging tape, carrier-securing adhesive tape

- 2. Specification

| No.  | Item  | Condition |                          |           |                      |                     | Remarks                            |  |
|--|---|-----------|--------------------------|-----------|----------------------|---------------------|------------------------------------|--|
| 1  | Reel outer diameter                         | Refer t   | Refer to the attachment. |           |                      |                     |                                    |  |
| 2  | Reel inner diameter                         | Refer t   | Refer to the attachment. |           |                      |                     |                                    |  |
| 3  | Reel inner width                            | Refer t   | the att                  | achment   |                      |                     |                                    |  |
| 4  | Quantity in a reel                          | 4000 p    | oieces/re                | el        |                      |                     |                                    |  |
| 5  | Taping direction                            |           |                          |           |                      |                     | eling direction<br>ings facing up) |  |
| 6  | Top tape<br>attachment<br>position          | Top tape  | De attachme<br>edge must |           | •                    | 5.5ml<br>Emt        | the embossed                       | Tape breaks force.<br>Min. 10N<br>Top cover tape strength.<br>Min. 10N<br>Tape peel force.<br>0.11.0N<br>Tape peel angle.<br>165180degree<br>Reel weight.<br>Max 1500g |
| 7  | Label attachment position                   |           | Tape unreeling direction |           |                      |                     |                                    | Indicated Item<br>Pat No., Lot No.<br>Quantity, Maker<br>Country   |
| 8  | Tape leader part<br>and tape ending<br>part | 20        | part Prod                |           |                      | Leader              | Top tape                           |  |
| 9 Missing products No missing products shall be allowed.           |   |           |                          |           |                      |                     |                                    |  |
| 10Packaged quantity in a box21reels/box (Max)84000 pieces/box(Max) |   |           |                          |           |                      |                     |                                    |  |
|  |   |           |                          |           |                      | FD1548              |                                    |  |
| Enact. Date November 15, 2002 P.S.M Approval Check Plan            |   |           |                          |           | ging specification 1 |                     |                                    |  |
| Enfo. Date November 15, 2002                                       |   |           |                          | M. Mizuno | S.Endo               | Drawing 1<br>151-El | <sup>№.</sup><br>HF- FD1548 9-6    |  |

