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Messrs. Digi-Key

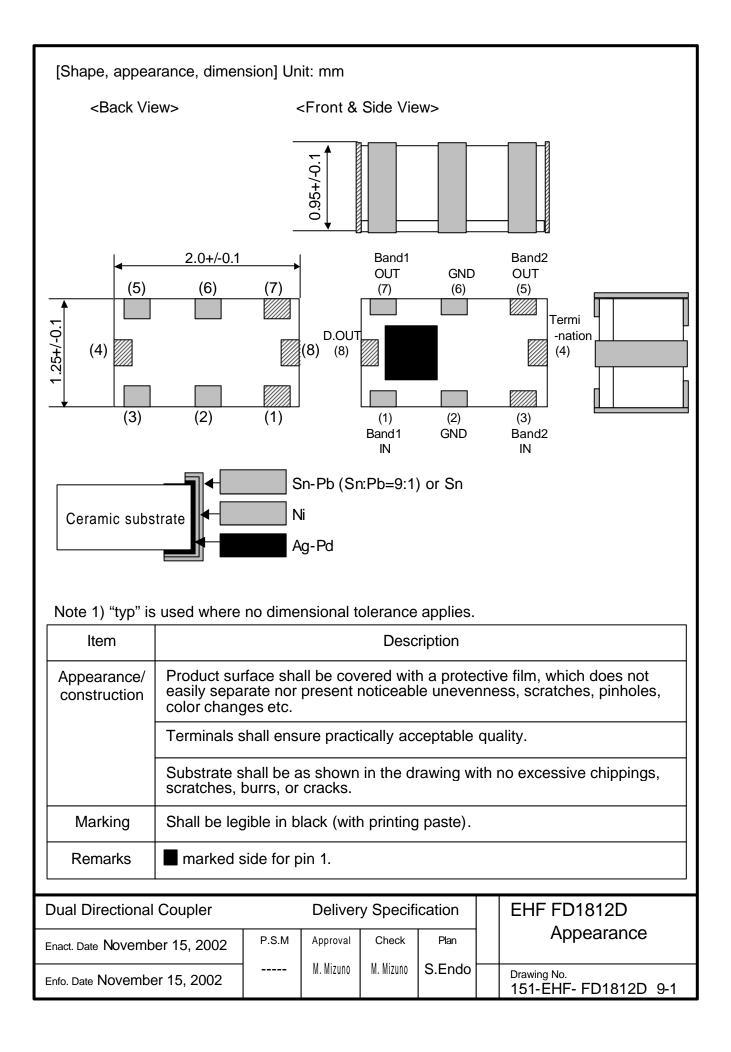
Issue No.: PC-02-053Date of issue : November 15, 2002Classification :■ New □ Change □ Renewal

### **Delivery Specification**

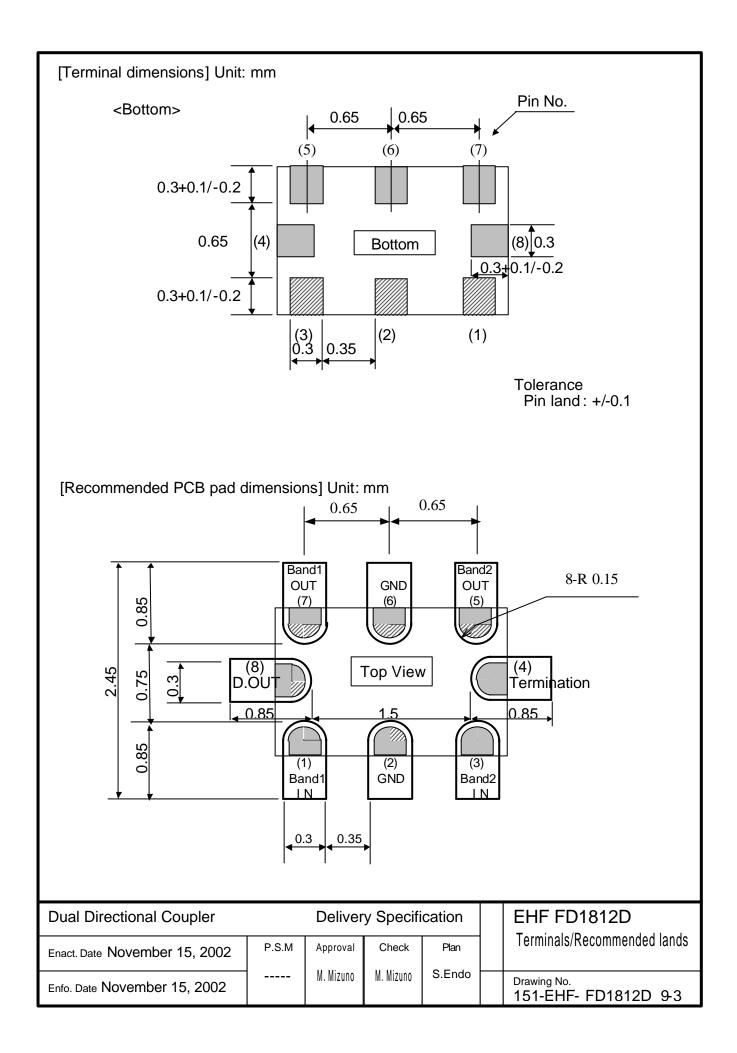
Product Description	: Dual Band Directional Coupler
Product Part Number	: EHFFD1812D
Classification of Spec	: Individual Product Specification
Applications	: Cellular phone
	For other applications, contact the undersigned in advance.
Term of Validity	: November 14, 2007 from the date of issue.

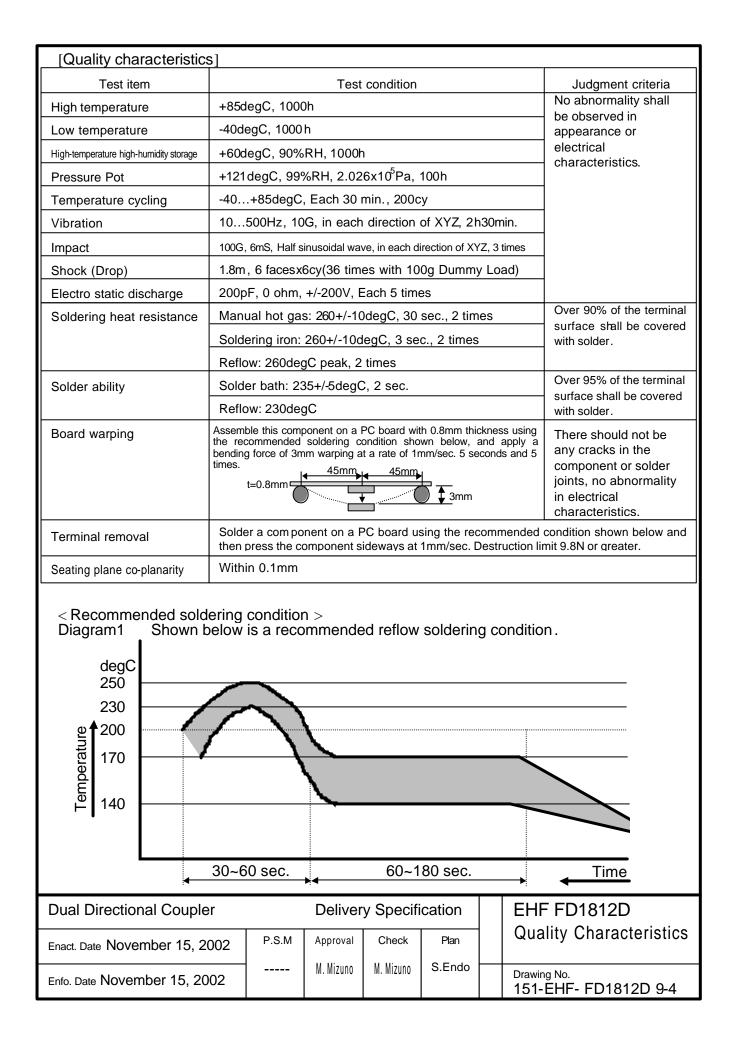
CUSTOMER USE ONLY	Receipt Record#:
This was certainly received by us. 1(one) copy is being returned to you.	Date of receipt:
	Received by:
	Title: Dept.:

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



[Abso	lute maximum rating	s]						
No.	Item		nbol	Rating		Unit	Remai	·k
	Maximum Input Power			3.2/1.5(Band1/2)		W	Remark DC bias is zero.	
	Operating Temperati			-30~+8		degC		
	Storage Temperature			-40~+8		degC		
	This component canr							<b>,</b>
	cteristics <sup>'</sup> ]						T= 25 +/-	5 degC
No.	Item		Test		S	pecific	ation	Unit
			Circui	t min		typ		1
1 Fi	requency range Ba	ınd1	Fig.1	880		-	915	MHz
		Ind2	Fig.1	1710		-	1785	MHz
		Ind1	Fig.1			-	0.35	dB
		ind2	Fig.1			-	0.45	dB
		ind1	Fig.1			19.0		dB
		Ind2	Fig.1			14.(	) 15.5	dB
		ind1	Fig.1			-	-	dB
		Ind2	Fig.1			-	-	dB
9 10	put V.S.W.R. in both	Bands	Fig.1	_		-	1.5	-
				_				
*1 not include Test Board Loss Band1 : 0.10 dB Band2 : 0.15 dB Band2 : 0.15 dB (1) Band1 IN (4) Termination (5) Band2 OUT (6) Band2 OUT (7) Band2 OUT (6) Band2 OUT (7) Band2 OUT (8) D.OUT (9) Band2 IN (1) to (7), others=Termination(50 ohm) (3) to (5), others = Termination(50 ohm) (4. Insertion loss in Band2> (3) to (5), others = Termination(50 ohm) (3) to (6), others = Termination(50 ohm) (4. Insertion loss in Band2> (3) to (6), others = Termination(50 ohm) (5) to (8), others = Termination(50 ohm) (6) to (8), others = Termination(50 ohm) (7) to (8), others = Termination(50 ohm) (8) solation in Band1> (7) to (8), others = Termination(50 ohm) (9) to (8), others = Termination(50 ohm) (1) to (3), others = Termination(50 ohm) (3) to (5), others = Termination(50 ohm) (4) Leganda I in to Band2 I in > (1) to (3), others = Termination(50 ohm) (3) to (3), others = Termination(50 ohm) (4) Leganda I in to Band2 I in > (5) to (8), others = Termination(50 ohm) (6) to (8), others = Termination(50 ohm) (7) Leganda I in to Band2 I in > (1) to (3), othe								
Dual Di	rectional Coupler		Delivery Specification					
Enact. Date	November 15, 2002	P.S.M	Approval	Check	Plan		Specification and	measurement
Enfo. Date	November 15, 2002		M. Mizuno	M. Mizuno	S.Endo		Drawing No. 151-EHF- FD1	812D 9-2





#### [Cautions for use]

(1) Operating a product over the maximum rating for even a moment may result in a	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.

Dual Directional Coupler	Delivery Specification			EHF FD1812D		
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. 151-EHF- FD1812D 9-5	

## [Packaging materials] 1. Materials 1)

- Embossed carrier tape (Refer to the attachment)
   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 to the attachment.				
2	Reel inner diameter	Refer to the attachment.				
3	Reel inner width	Refer to the attachment.				
4	Quantity in a reel	4000 pieces/reel				
5	Taping direction	Tape unreeling direction (with markings facing up)				
6	Top tape attachment position	Top tape 8.0+/-0.2mm  Top tape 5.5mm Embossed tape Top tape attachment area > Embossed tape Top tape edge must stay inside the sprocket holes of the embossed carrier (Sprocket holes shall not be covered).	Tape breaks force. Min. 10N Top co ver tape strength. Min. 10N Tape peel force. 0.11.0N Tape peel angle. 165180degree Reel weight. Max 1500g			
7	Label attachment position	Tape unreeling direction	Indicated Item Pat No., Lot No. Quantity, Maker Country of Origin			
8	Tape leader part and tape ending part	Leader part Leader part Leader part Product-loaded part Embossed carrier 200-220mm (Product-unloaded part) 100-150mm, 25-38 pieces worth, (Product-unloaded part) 300- 400mm				
9 Missing products No missing products shall be allowed.						
10Packaged quantity in a box21reels/box (Max)84000 pieces/box(Max)						
	I Directional Coup	Packa	FD1812D ging specification 1			
	. Date November 15, Date November 15, 2	002 M. Mizuno M. Mizuno S.Endo Drawing	No. HF- FD1812D 9-6			

