# **Panasonic**

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# **SAW Duplexers**

Type: <b>EFS</b>	$D {oxdot}$			$\exists F \llbracket$			
EFS	DΓ	$\neg \Gamma$	٦٢	٦٦٦	$\neg \Gamma$	$\neg \Box$	1



SAW Duplexer for Cellular Telephone which incorporates highly-precise interdigited electrodes achieves low insertion loss, high selectivity. And unique electrode material achieves high power durability thus the duplexer has wide applications to antenna duplexer circuits for cellular telephones.

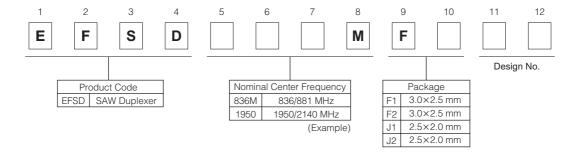
#### ■ Features

- Stable against severe conditions of vibration and shock thanks to the unique monolithic construction of the filter
- Low insertion loss and excellent selectivity
- Contributes to circuit simplification and adjustment free
- Saves the hight on PC board

#### ■ Recommended Applications

• The antenna duplexer for cellular telephone

#### ■ Explanation of Part Numbers



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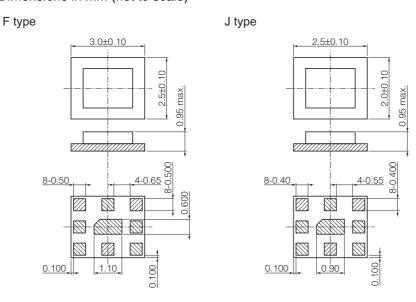
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### ■ Ratings and Characteristics

Part No.	System	Nominal Center Frequency	Input/Output Impedance	Size	Package	
EFSD836MF1□□				3.0×2.5 mm	F	
EFSD836MF2□□	CDMA UMTS Band V	836.5/881.5 MHz	UB-UB(50 Ω-50 Ω)	3.0x2.5 11111		
EFSD836MJ1□□				2.5×2.0 mm	1	
EFSD836MJ2□□				2.5x2.0 11111	J	
EFSD1950J1□□	UMTS Band I	1950/2140 MHz	UB-UB(50 Ω-50 Ω)	2.5×2.0 mm		
EFSD1950J2□□	OIVITS BAILU I	1950/2140 NIDZ	00-00(30 11-30 11)	2.382.0 111111	J	

\* UB : Unbalance, B : Balance

## ■ Dimensions in mm (not to scale)



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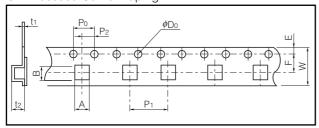
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## ■ Packaging Methods (Taping)

Minimum Quantity / Packing Unit

Part Number	Packaging Style	Quantity	Packaging Quantity in Carton	Carton Dimensions in mm (LxWxH)	
EFSD	Embossed Carrier Taping	2000 pcs./reel	10000 pcs.	230×220×73	
EFSDJ	Embossed Carrier Taping	2000 pcs./reel	10000 pcs.	230×220×73	

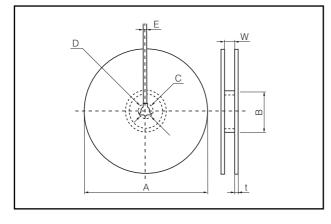
### Embossed Carrier Taping



#### F type

Symbol	W	F	Е	P <sub>0</sub>	P <sub>1</sub>	P <sub>2</sub>	$D_0$	t <sub>1</sub>	t <sub>2</sub>	А	В
Dim. (mm)	8.0±0.2	3.50±0.05	1.75±0.10	4.0±0.1	4.0±0.1	2.00±0.05	φ1.50 <sup>+0.1</sup>	0.25±0.05	1.00±0.05	2.9±0.05	3.40±0.05
J type											
Symbol	W	F	E	$P_0$	P <sub>1</sub>	P <sub>2</sub>	$D_0$	t <sub>1</sub>	t <sub>2</sub>	А	В
Dim. (mm)	8.0±0.2	3.50±0.05	1.75±0.10	4.0±0.1	4.0±0.1	2.00±0.05	φ1.50 <sup>+0.1</sup>	0.25±0.05	1.10±0.10	2.3±0.1	2.8±0.1

### Taping Reel



#### F, J type

Symbol	А	В	С	D	E	W	t
Dim. (mm)	φ178±3	φ60.0±1.0	φ13.0±0.5	φ21.0±1.0	2.0±0.5	9.0±1.0	max. 3