# **SAW Duplexers**





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.

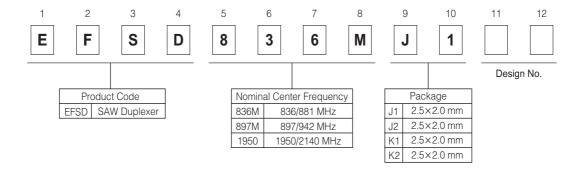
#### ■ Features

- 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

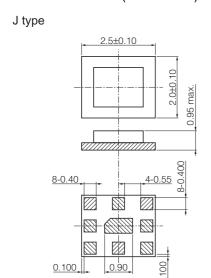


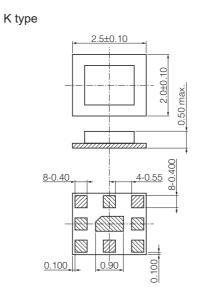
# ■ Ratings and Characteristics

Part No.	System	Nominal Center Frequency	Input/Output Impedance	Size	Package	
EFSD836MJ1□□	CDMA	836.5/881.5 MHz	UB-UB(50 Ω-50 Ω)	2.5×2.0 mm		
EFSD836MJ2□□	UMTS Band V	030.3/001.3 101112	00-00(30 32-30 32)	2.382.0 11111	J	
EFSD1950J1□□	UMTS Band I	1950/2140 MHz		2.5×2.0 mm	1	
EFSD1950J2□□	UIVITS Bariu I	1950/2140 WITZ	UB-UB(50 $\Omega$ -50 $\Omega$ )	2.5x2.0 11111	J	
EFSD897MK1□□	UMTS Band VIII	207 E /0 40 E MI I=	LID LID(50 0 50 0)	2.5×2.0 mm	K	
EFSD897MK2□□	TOWNS BANG VIII	897.5/942.5 MHz	UB-UB(50 $\Omega$ -50 $\Omega$ )	2.0X2.0 IIIII	<u> </u>	

\* UB : Unbalance, B : Balance

# ■ Dimensions in mm (not to scale)



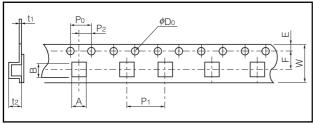


# ■ Packaging Methods (Taping)

# 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	
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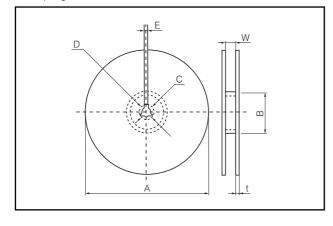
# Embossed Carrier Taping



#### J type

Symbol	W	F	Е	$P_0$	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
K type											
Symbol	W	F	E	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	0.70±0.10	2.3±0.1	2.8±0.1

# Taping Reel



# J, K type

Symbol	Α	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