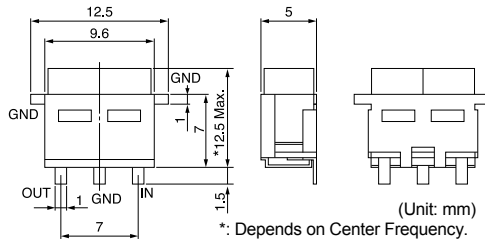


### TYPE #4DFA (2 Pole SMD Type) / #4DFB (3 Pole SMD Type)

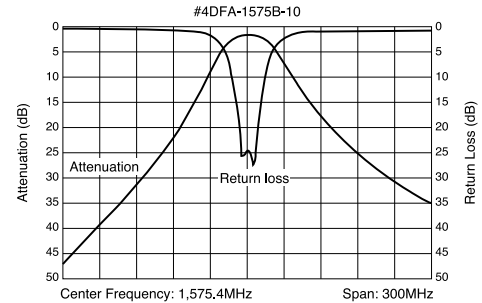
Frequency Range: 700~2500MHz

Temperature Range: -40°C~+85°C

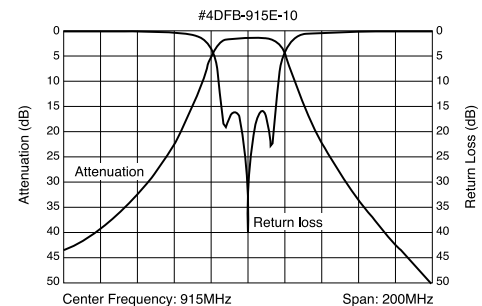
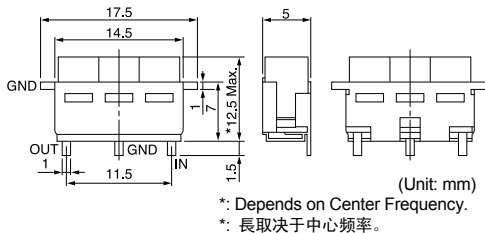
#### #4DFA



#### Typical Characteristics 典型特性



#### #4DFB



### SELECTION GUIDE FOR STANDARD DEVICES

- The Part Number shown in the table below are standard devices, which are readily available. TOKO will design and manufacture modified and custom devices with specific characteristics to meet your requirements. If you do not find the devices for your application in this catalog, please contact our sales or representative office.
- RoHS compliant

- 下表中所示部品号为标准设备，可随时提供。为满足您的需求，东光也设计和生产有特定性能的改装与自定义设备。如果目录中没有您所需要的设备，请与我们的销售处或代表处联系。
- 符合RoHS指令。

#### TYPE #4DFA: SMD 2 Pole Designs

东光部品号	中心频率	带宽	最大插入损耗	BW中最大纹波	电压驻波比	最小选择度	应用
TOKO Part Number	Center Frequency (MHz)	Bandwidth (fo ± MHz)	Insertion Loss (dB) Max.	Ripple in BW (dB) Max.	V.S.W.R. in BW Max.	Selectivity (dB) Min. (MHz)	Application
#4DFA-836E-10	836.5	± 12.5	2.0	1.0	2.0	18 (fo ± 77.5)	AMPS
#4DFA-881E-10	881.5	± 12.5	2.0	1.0	2.0	18 (fo ± 77.5)	AMPS
#4DFA-902E-10	902.5	± 12.5	2.0	1.0	2.0	18 (fo ± 77.5)	NMT/GSM
#4DFA-947E-10	947.5	± 12.5	2.0	1.0	2.0	18 (fo ± 77.5)	NMT/GSM
#4DFA-866A-10	866.0	± 2.0	3.0	1.0	1.43	30 (fo - 105)	CT2
#4DFA-886A-10	886.0	± 1.0	3.0	1.0	2.0	22 (fo ± 45)	Cordless Phone
#4DFA-808C-11	808.0	± 8.0	2.0	1.0	2.0	22 (fo ± 64)	Wireless Microphone
#4DFA-849C-10	849.0	± 8.0	2.0	1.0	2.0	22 (fo ± 64)	Wireless Microphone
#4DFA-915E-10	915.0	± 13.0	2.2	1.0	2.0	18 (fo ± 77.5)	Spread Spectrum
#4DFA-1227B-10	1227.0	± 5.0	2.0	0.8	2.0	7, 30 (fo ± 35, ± 140)	GPS
#4DFA-1227B-11	1227.0	± 5.0	1.2: 0.7 Typ.	0.5	2.0	15, 20 (fo + 140, - 140)	GPS
#4DFA-1227D-12	1227.0	± 10.0	1.2: 0.7 Typ.	0.7	2.0	16, 20 (fo + 140, - 140)	GPS
#4DFA-1248B-10	1248.0	± 5.0	2.0: 1.4 Typ.	0.8	2.0	7, 30 (fo ± 35, ± 140)	GPS
#4DFA-1575B-10	1575.4	± 5.0	2.0: 1.4 Typ.	0.8	2.0	7, 30 (fo ± 35, ± 140)	GPS
#4DFA-1575B-12	1575.4	± 5.0	1.2: 0.7 Typ.	0.5	2.0	17, 20 (fo + 140, - 140)	GPS
#4DFA-1575B-14	1575.4	± 5.0	2.5: 1.8 Typ.	0.8	2.0	17 (fo ± 50)	GPS
#4DFA-1550L-10	1550.0	± 30.0	1.2: 0.7 Typ.	0.7	2.0	12, 16 (fo + 150, - 150)	MCSS
#4DFA-2442P-10	2442.0	± 40.0	2.5	1.0	2.0	15 (fo ± 250)	Spread Spectrum

输入/输出阻抗 / Input Output impedance : 50Ω

## TYPE #4DFB: SMD 3 Pole Designs

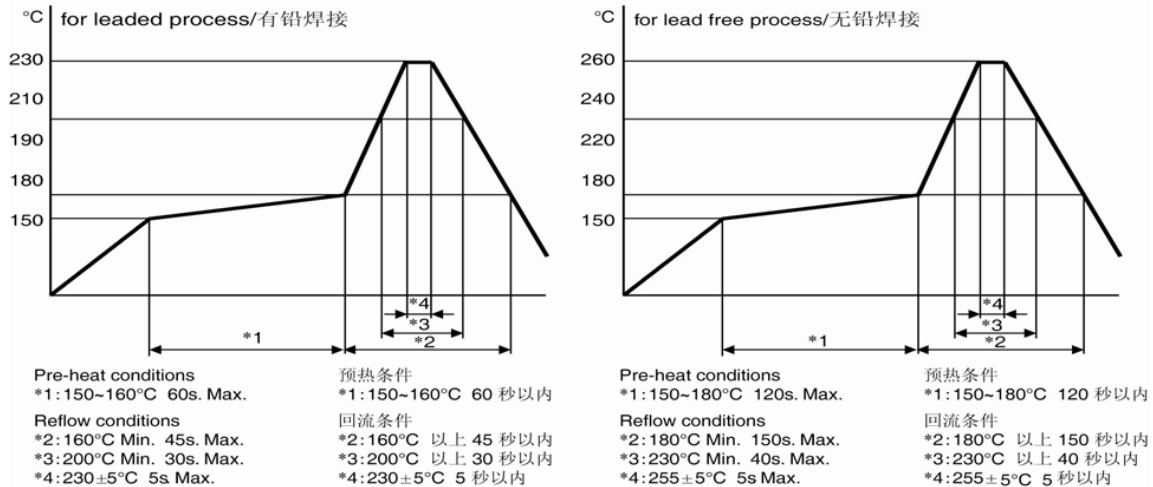
东光部品号	中心频率	带宽	最大插入损耗	BW中最大纹波	电压驻波比	最小选择度	应用
TOKO Part Number	Center Frequency (MHz)	Bandwidth (fo ± MHz)	Insertion Loss (dB) Max.	Ripple in BW (dB) Max.	V.S.W.R. in BW Max.	Selectivity (dB) Min. (MHz)	Application
#4DFB-704E-10	704.0	± 12.0	3.0	1.0	2.0	40,43 (fo - 100, + 100)	Wireless Microphone
#4DFB-790H-10	790.0	± 20.0	2.7	1.1	2.5	35 (fo ± 100)	Wireless Microphone
#4DFB-796F-10	796.0	± 14.0	3.0	1.0	2.0	40,43 (fo - 100, + 100)	Wireless Microphone
#4DFB-836E-10	836.5	± 12.5	2.5	1.0	2.0	12 (fo ± 32.5)	AMPS
#4DFB-881E-10	881.5	± 12.5	2.5	1.0	2.0	12 (fo ± 32.5)	AMPS
#4DFB-886A-10	886.0	± 1.0	4.5	1.0	2.0	41 (fo ± 45)	Cordless Phone
#4DFB-953A-10	953.5	± 1.5	6.0	1.5	2.0	30 (fo ± 30)	RFID
#4DFB-915E-10	915.0	± 13.0	2.7	1.0	2.0	12 (fo ± 32.5)	Spread Spectrum
#4DFB-1030C-10	1030.0	± 7.5	3.2	1.0	1.6	20, 50 (fo ± 35, ± 140)	TCAS
#4DFB-1227D-10	1227.0	± 10.0	3.2	1.0	2.0	12, 40 (fo ± 35, ± 140)	GPS
#4DFB-1575D-10	1575.0	± 10.0	3.2	1.0	2.0	12, 40 (fo ± 35, ± 140)	GPS
#4DFB-1542G-10	1542.0	± 17.0	2.0	1.0	2.0	17 (fo ± 84.5)	MCSS/INMARSAT
#4DFB-1643G-10	1643.5	± 17.0	1.6	0.5	1.5	18, 28 (fo - 67, + 108)	MCSS/INMARSAT
#4DFB-1747N-10	1747.5	± 35.0	2.0	1.2	2.0	12, 38 (fo ± 100, ± 350)	PCN
#4DFB-1842N-10	1842.5	± 35.0	2.0	1.2	2.0	24, 38 (fo ± 157, ± 350)	PCN
#4DFB-1950L-10	1950.0	± 30.0	3.0	1.0	2.0	25, 25 (fo - 230, + 160)	W-CDMA
#4DFB-2140L-10	2140.0	± 30.0	3.0	1.0	2.0	30, 22 (fo - 340, - 160)	W-CDMA
#4DFB-2442P-10	2442.0	± 40.0	2.5	1.2	2.0	5, 32 (fo ± 80, ± 250)	Spread Spectrum
#4DFB-920A-11	920.0	± 2.5	5.0	1.0	2.0	50, 18 (fo - 88, ± 20)	Digital TV
#4DFB-860D-10	860.0	± 10.0	2.5	0.8	2.0	15, 35 (fo ± 35, ± 80)	LMR
#4DFB-938A-13	938.0	± 3.0	2.0	1.0	2.0	18, 13 (fo - 36, + 36)	LMR

输入/输出阻抗 / Input Output impedance : 50Ω

### PRECAUTIONS AND RECOMMENDED SOLDERING CONDITIONS FOR USING DIELECTRIC FILTERS SURFACE MOUNT TYPE

表面贴装型介质滤波器的使用注意事项和推荐焊接条件

Temperature profile (land seface temperature)  
温度厚度 (地表温度)



#### 1. Reflow solder conditions

##### • Solderability

When flux-mounted terminals are immersed in solder at following conditions, at least 95% of the surface should be covered by solder.

Conditins

leaded process : 215±5°C for 3±0.5 seconds

lead free process : 245±5°C for 3±0.5 seconds

##### • Solder heat resistance

No abnormalities under solder conditions of

leaded process : 230±5°C for 5 seconds

lead free process : 255±5°C for 5 seconds

#### 2. Rinsing

After Soldering, you should rinsing away the excess flux. Any commercially available rinsing agent may be used.

#### 3. Other Precautions

Perform soldering at as low a temperature as possible and for as short a time as possible. Make sure that the silver electrode of resonators is not covered by solder.

Avoid applying external forces to terminals such as by bending or cutting them.

#### 4. Iron Soldering

Perform iron soldering with iron at following conditions.

Conditins

leaded process : 350°C for 5s. Max.

lead free process : 390±5°C for 5s. Max.

#### 1. 回流焊接条件

##### • 可焊性

焊接的端子在以下条件下浸入焊剂时，至少95%的表面应被焊剂覆盖。

条件

有铅焊接：230±5°C下3±0.5秒

无铅焊接：260±5°C下3±0.5秒

##### • 焊剂耐热性

在以下焊料条件下无异常：

有铅焊接：230±5°C下5秒

无铅焊接：260±5°C下5秒

#### 2. 清除

焊接后，应清除多余的焊剂。

可使用市面上可买到的任意一款水洗剂。

#### 3. 其他注意事项

在尽可能低的温度下用尽可能少的时间进行焊接操作。

确保振荡器的银质电极没有被焊剂覆盖。

避免对端子施加其他力量，如弯曲或切割等。

#### 4. 烙铁焊接

当烙铁处于以下状态时进行烙铁焊接操作。

条件

有铅焊接：350±5°C下最多5秒

无铅焊接：390±5°C下最多5秒