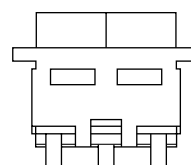
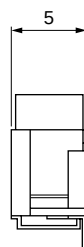
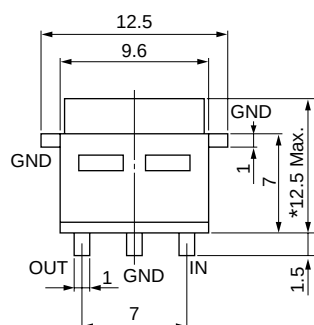


TYPE 4DFA (2 Pole SMD Type)

Frequency Range: 800~2500MHz

Temperature Range: -40°C~+85°C



Tolerance: ± 0.5

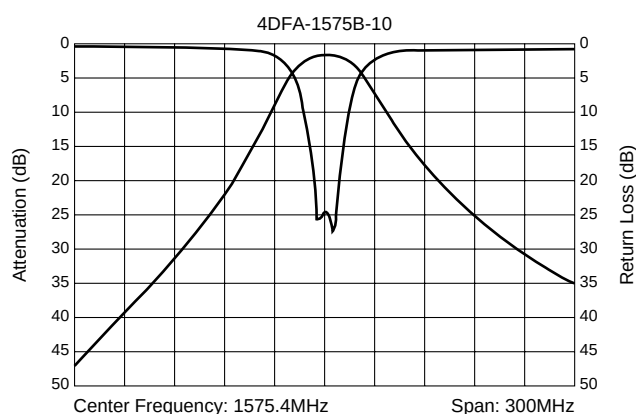
*: Depends on Center Frequency.
*: 長さは周波数に依存します。

(Unit: mm)

Measurement values: 4DFA-1575B-10

Passband Insertion Loss	1.42dB
Passband Ripple	0.12dB
Passband V.S.W.R.	1.13
Attenuation	
at 1540.4MHz	11.3dB
at 1610.4MHz	8.9dB
at 1435.4MHz	44.2dB
at 1715.4MHz	33.9dB

Characteristics 特性曲線



SELECTION GUIDE FOR STANDARD DEVICES

The Part Numbers 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 device for your application in this catalog, please contact our sales or representative office.

下記の表に示す製品番号は、標準品です。TOKOは、お客様のご要望に合わせ設計、製作いたしますので、お客様の用途に適合する仕様が見当たらない場合は、当社営業所または代理店にご連絡ください。

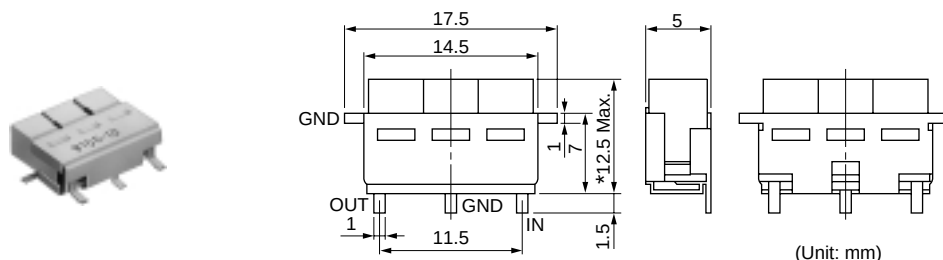
TYPE 4DFA: SMD 2 Pole Designs

東光品番	中心周波数	帯域幅	挿入損失	帯域内リップル	V.S.W.R.	選択度	応用例
TOKO Part Number	Center Freq. (MHz)	Bandwidth (fo $\pm$ 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-964E-10	964.0	± 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-931A-10	931.0	± 1.0	3.0	1.0	2.0	22 (fo ± 45)	Cordless Phone
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-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-1890D-10	1890.0	± 10.0	2.0	1.0	2.0	20 (fo ± 89)	DECT
4DFA-1903C-10	1903.0	± 8.0	2.7	1.0	2.0	15, 27 (fo ± 50 , ± 100)	JDCT
4DFA-2442P-10	2442.0	± 40.0	2.5	1.0	2.0	15 (fo ± 250)	Spread Spectrum
4DFA-2500A-10	2500.0	± 2.0	3.0	1.0	2.0	18, 25 (fo ± 60 , ± 90)	VICS

TYPE 4DFB (3 Pole SMD Type)

Frequency Range: 800~2500MHz

Temperature Range: -40°C~+85°C



Tolerance: ± 0.5

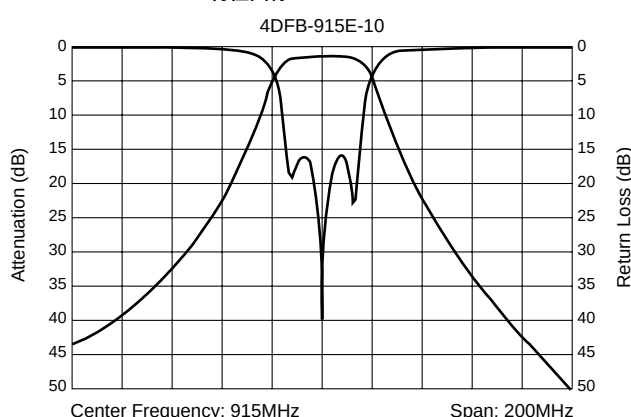
*: Depends on Center Frequency.
*: 長さは周波数に依存します。

(Unit: mm)

Measurement values: 4DFB-915E-10

Passband Insertion Loss	1.84dB
Passband Ripple	0.45dB
Passband V.S.W.R.	1.39
Attenuation at 882.5MHz	16.9dB
at 947.5MHz	16.8dB

Characteristics 特性曲線



SELECTION GUIDE FOR STANDARD DEVICES

The Part Numbers 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 device for your application in this catalog, please contact our sales or representative office.

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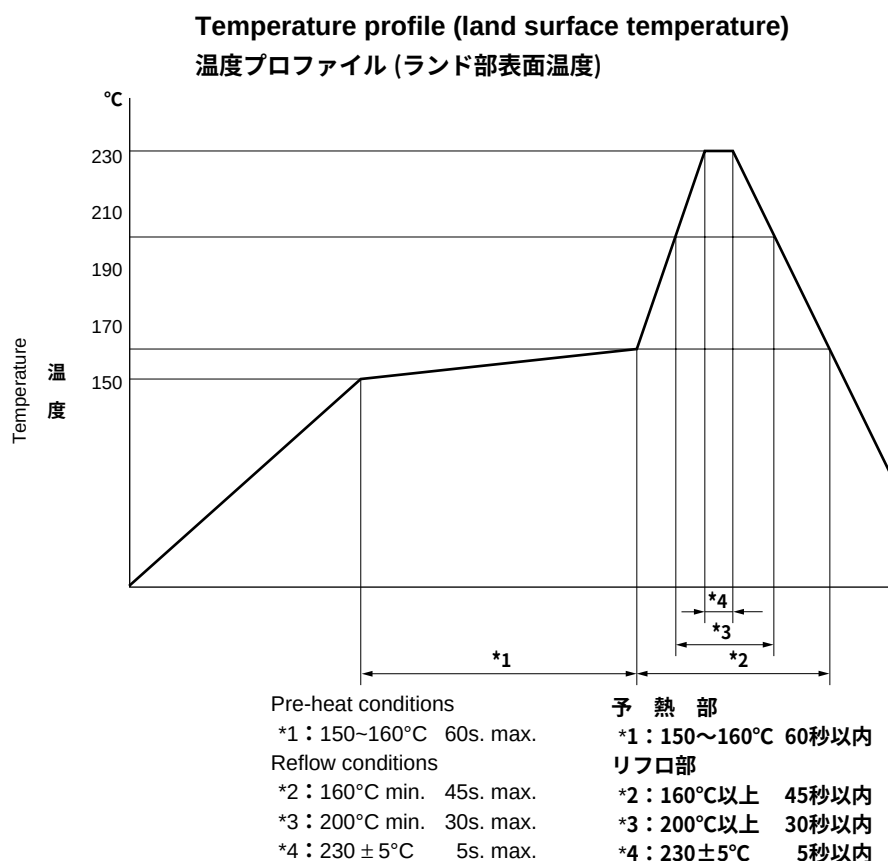
TYPE 4DFB: SMD 3 Pole Designs

東光品番	中心周波数	帯域幅	挿入損失	帯域内リップル	V.S.W.R.	選択度	応用例
TOKO Part Number	Center Freq. (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-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-931A-10	931.0	± 1.0	4.5	1.0	2.0	41 (fo ± 45)	Cordless Phone
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-1472H-11	1472.0	± 20.0	2.0	0.8	2.0	34 (fo ± 215)	DAB
4DFB-1441A-12	1441.0	± 2.0	3.0	1.0	2.0	47, 24 (fo - 260, + 48)	PDC
4DFB-1489A-12	1489.0	± 2.0	3.0	1.0	2.0	46, 30 (fo - 130, - 48)	PDC
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-2442P-10	2442.0	± 40.0	2.5	1.2	2.0	5, 32 (fo ± 80, ± 250)	Spread Spectrum
4DFB-1950L-10	1950.0	± 30.0	3.0	1.0	1.0	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-920A-11	920.0	± 2.5	5.0	1.0	2.0	50, 18 (fo - 88, ± 20)	Digital TV
4DFB-920B-10	920.0	± 5.0	3.0	1.0	2.0	32 (fo ± 55)	Digital TV
4DFB-1300E-11	1300.0	± 12.5	3.0	0.8	2.0	12 (fo ± 36)	CATV

DIELECTRIC FILTERS 誘電体フィルタ

■PRECAUTIONS IN USING DIELECTRIC FILTERS SURFACE MOUNT TYPE

面実装誘電体フィルタご使用上の注意



1. Reflow solder conditons

- Solderability
When flux-mounted terminals are immersed in solder at 230°C ± 5°C for 3 ± 0.5 seconds, at least 95% of the surface shall be covered by solder.
- Solder heat resistance
No abnormalities under solder conditions of 230°C ± 5°C for 5 seconds.

2. Rinsing

After soldering, you should rinse 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 a maximum of 350°C and heat for less than 5 seconds, one cycle.

1. リフロはんだ条件

- はんだ付け性
フラックス付けした端子部を230°C ± 5°Cのはんだ中に3 ± 0.5秒浸漬し95%以上の面積がはんだで覆われること。
- はんだ耐熱性
230°C ± 5°C、5秒のはんだ付け条件で異常のないこと。

2. 洗浄

はんだ付け後のフラックスの洗浄をしてください。洗浄液として一般的に使用されている全ての洗浄液が使用できます。

3. その他留意事項

はんだ付けは極力低い温度で短時間で行ってください。
共振器の銀電極にはんだが付着しないようにしてください。
端子を曲げたり、切断するなど、端子部分に外力を加える事は避けてください。

4. こてはんだ

こて先温度350°C以下、加熱時間5秒以内、1回。