

Dielectric Filters

Token Offers Dielectric RF Filters for Telecoms (DF-A)

▶ Preview

Token has extended the capabilities of its filter product line with the introduction of a new range of dielectric microwave filters to the available frequency range up to 5.8GHz. Token designs and manufactures custom electronic filters for defence, telecommunications and similar application increasing the range of products available to customers.



Two block-type dielectric RF filters for telecoms basestation applications have been added to Token's DF range. The filters have been designed for cellular basestation applications that use a digital pre-distortion amplifier (DPD), as they feature a wide pass band and flat ripple performance, which are required for DPD PA design.

Applications also include RF and microwave communications such as GSM, 3G, GPS, satellite and TV transmission, wireless security systems, radar, CT1, CT2, 900MHz, 1.8GHz, 2.4GHz, 5.8GHz Cordless Phone, wireless earphone, wireless microphone, aerospace and military.

The DF-A filter's small size (8.8 x 7.3 x 3.6 mm) means they require more less mounting space compared to Token's previous generation of filters for this application. The filters' highly sophisticated multi-pole design ensures high attenuation and good selectivity. Both the two members of the DF series have a ripple of 1.0 dB max.

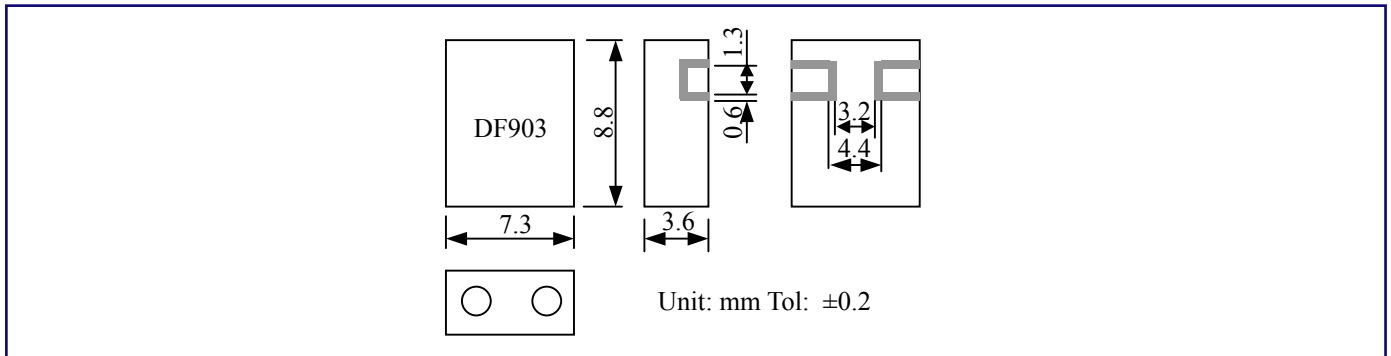
In addition, Token enhances custom design capabilities for specialist applications. Our customers will benefit from the additional frequency ranges now available and from the excellent quality and lower costs achievable

Custom parts are available on request. Token will also produce devices outside these specifications to meet specific customer requirements, please contact our sales for more information.

▶ Applications

- Suitable for surface mount and reflow soldering.
- Excellent mechanical structure and temperature stability.
- Good selectivity, low insertion loss for using high Q-value resonators.

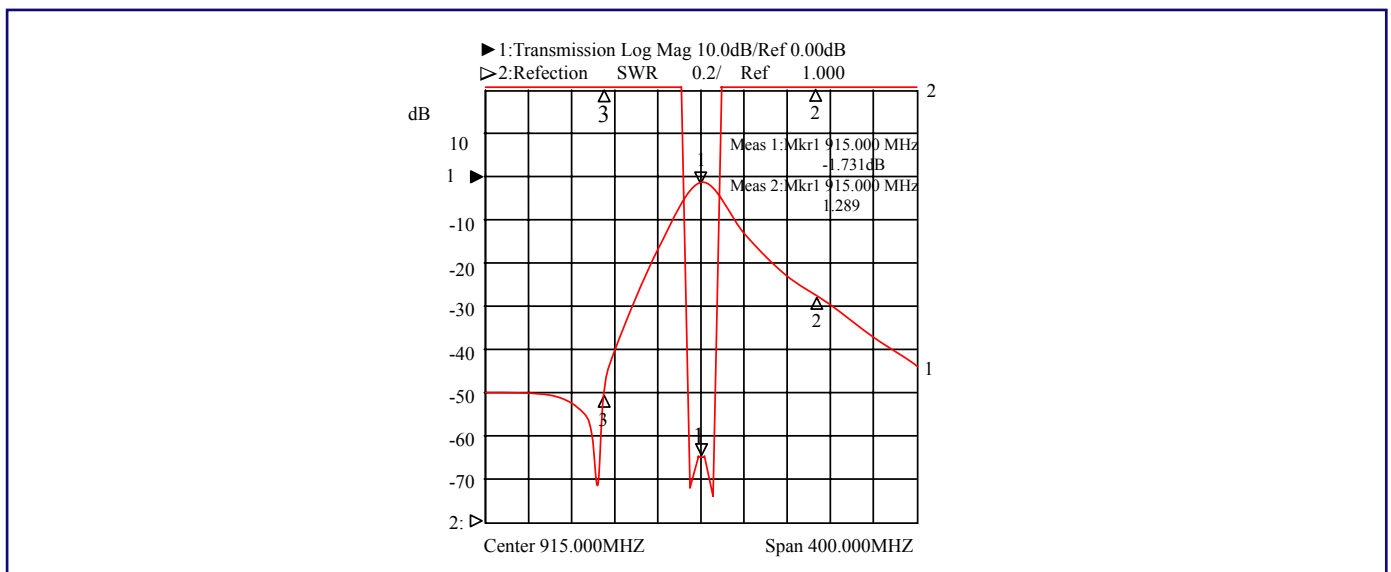
Dimensions (Unit: mm)



Typical Specifications

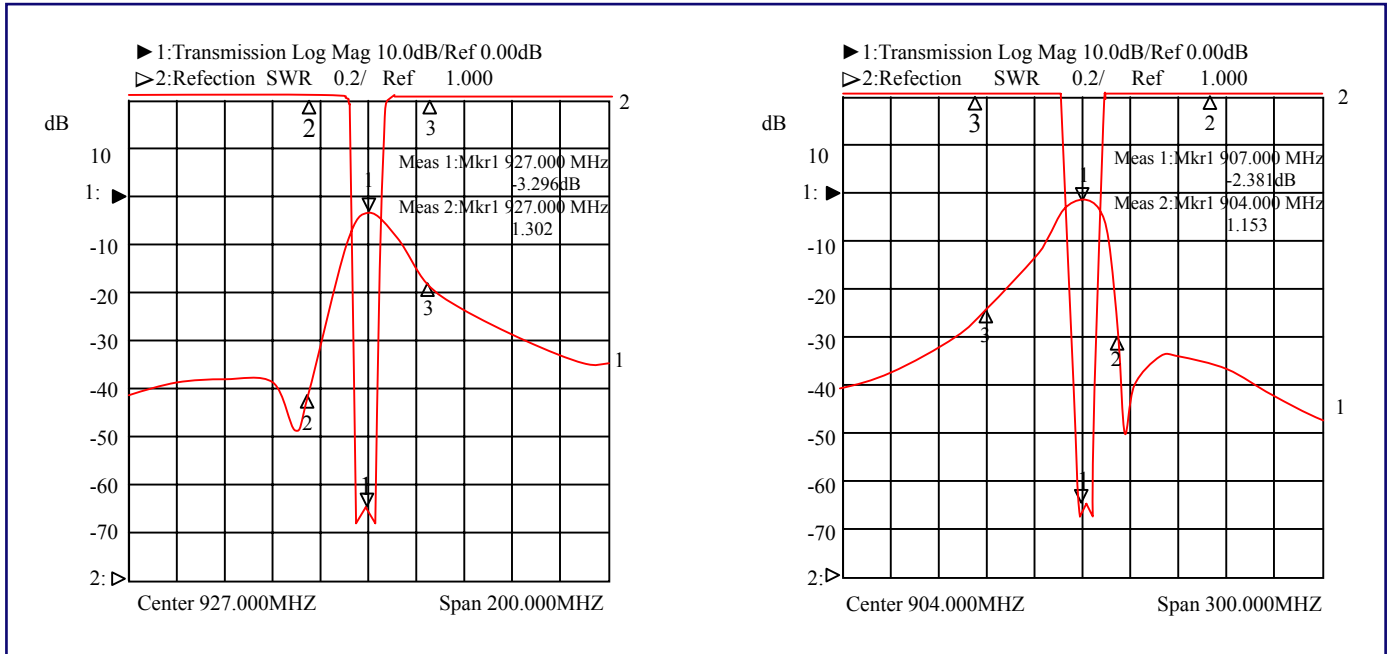
Part No.	Center Frequency (MHz)	Band Width (MHz)	Insertion Loss (dB) max.	Ripple in Band Width (dB) max.	V.S.W.R max.	Attenuation (dB) min. (MHz)
DF457S30A	457	fo±15	3.0	1.0	2.0	17 at fo+50; 30 at fo-50
DF522S10A	522	fo±5	3.0	0.5	1.6	23 at fo+40; 40 at fo-40
DF683S30A	683	fo±15	2.5	1.0	2.0	20 at fo+64; 30 at fo-64
DF740S30A	740	fo±15	2.0	0.5	1.8	14 at fo+64; 20 at fo-64
DF864S10A	864	fo±5	2.5	0.5	1.5	15 at fo+24; 17 at fo-24
DF915S25A	915	fo±12.5	2.0	1.0	2.0	20 at fo+100; 35 at fo-100
DF903S6A	903	fo±3	3.5	0.5	1.5	32 at fo+24
DF927S6A	927	fo±3	3.5	0.5	1.5	32 at fo-24
DF1890S80A	1890	fo±40	1.5	1.0	2.0	15 at fo+200; 35 at fo-200
DF2403S20A	2403	fo±10	3.0	0.5	1.5	35 at fo+75
DF2475S20A	2475	fo±10	3.0	0.5	1.5	35 at fo-75

Typical Characteristic



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▶ How to Order

DF
864
S
10
A

①
②
③
④
⑤

- ① Dielectric Filter
- ② Center Frequency
- ③ Connect Type :

Code	Size
S	SMD type

- ④ Bandwidth

- ⑤ Size

Code	Size
A	7.3*3.6 mm
B	6.0*3.0 mm
C	4.5*2.0 mm
D	3.6*1.8 mm

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