

# Dielectric Filters (DF-C/D)

**Token Two Block-Type Dielectric Filters (DF-C/D)  
range up to 5.8GHz**



## ► Preview

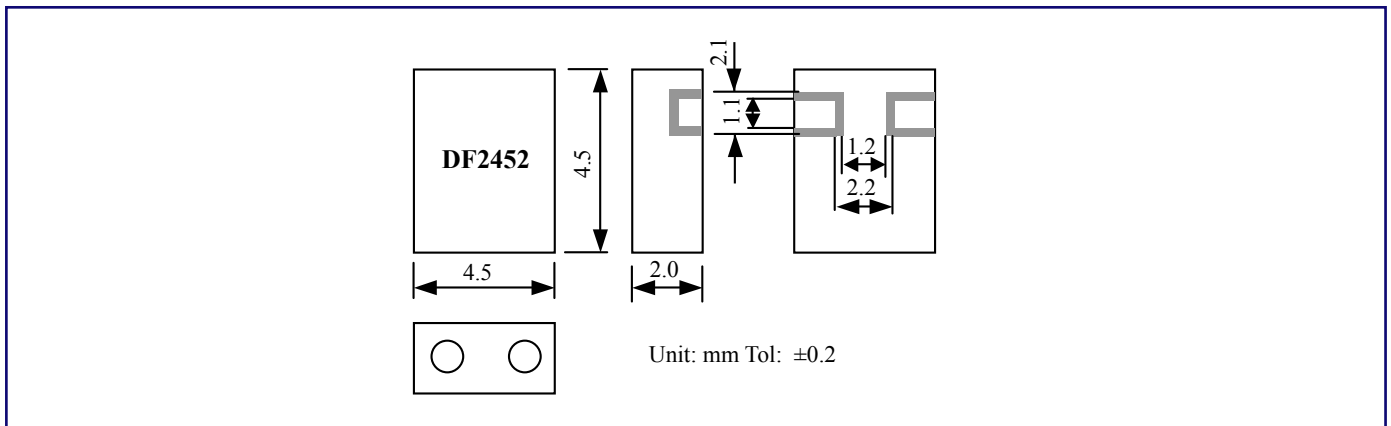
Token two block-type dielectric RF filters have been designed for cellular basestation applications that use a digital pre-distortion amplifier (DPD), as they feature a wide pass band and flat ripple performance, which are required for DPD PA design.

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

The (DF-C/D) filter's small size (4.5 x 4.5 x 2.0 mm) means they require more less mounting space with a ripple of 1.0 dB max and insertion loss 2.0 (dB) max. Center frequency range from 1575 MHz to 5800 MHz with V.S.W.R 2.0 max.

The surface mount RF Dielectric Filters (DF-C/D) conform to the RoHS directive and package is suitable for automatic pick and place equipment which assures mechanical stability and excellent lead coplanarity. Customized designs and tighter tolerances are available on request. Application of specific designs also available including different Dielectric values and Q specifications adjusted to frequency requirements.

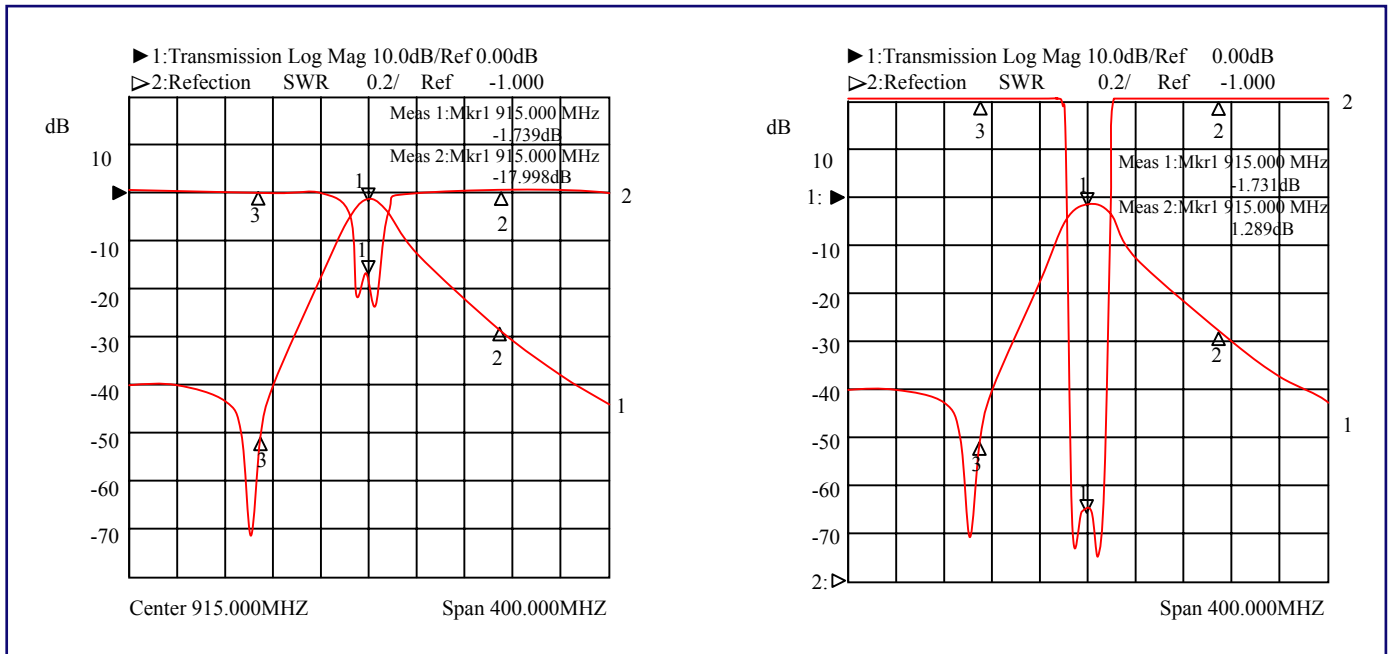
## ► Dimensions (Unit: mm)



## ► 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)
DF1575S40C	1575	$f_0 \pm 20$	2.0	0.7	2.0	20 at $f_0 - 100$ ; 18 at $f_0 + 100$
DF1855S70C	1855	$f_0 \pm 35$	2.0	0.7	2.0	20 at $f_0 + 300$ ; 20 at $f_0 - 300$
DF1890S80C	1890	$f_0 \pm 40$	2.0	0.7	2.0	15 at $f_0 + 250$ ; 35 at $f_0 - 250$
DF1950S90C	1950	$f_0 \pm 45$	3.0	0.7	2.0	45 at $f_0 + 975$ ; 45 at $f_0 - 975$
DF2332S100C	2332	$f_0 \pm 50$	2.5	0.7	2.0	25 at $f_0 + 500$ ; 40 at $f_0 - 500$
DF2450S100C	2450	$f_0 \pm 50$	2.0	0.7	2.0	12 at $f_0 + 250$ ; 15 at $f_0 - 250$
DF3066S170D	3066	$f_0 \pm 85$	2.0	1.0	2.0	10 at $f_0 + 300$ ; 15 at $f_0 - 300$
DF3480S120D	3480	$f_0 \pm 60$	2.0	1.0	2.0	10 at $f_0 + 500$ ; 20 at $f_0 - 500$
DF3650S150D	3650	$f_0 \pm 75$	2.0	1.0	2.0	15 at $f_0 + 750$ ; 25 at $f_0 - 750$
DF4880S160D	4880	$f_0 \pm 80$	2.0	1.0	2.0	5 at $f_0 + 350$ ; 15 at $f_0 - 350$
DF5800S200D	5800	$f_0 \pm 100$	2.0	1.0	2.0	5 at $f_0 + 400$ ; 15 at $f_0 - 400$

## Typical Characteristic



## How to Order

- DF
- 1950
- S
- 90
- C

- ❶ Dielectric Filter
- ❷ Center Frequency
- ❸ Connect Type :

Code	Size
S	SMD type

- ❹ Bandwidth
- ❺ 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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