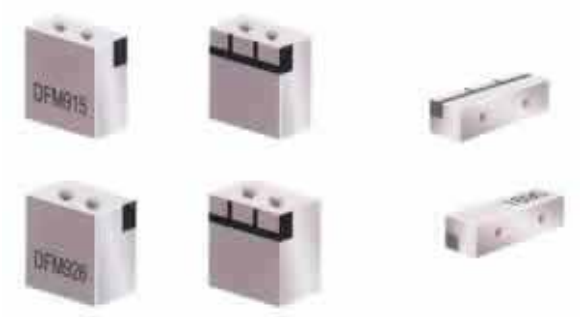
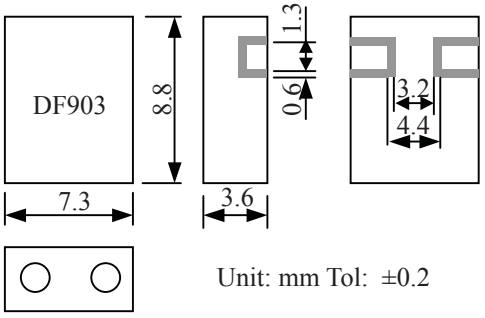
DF Band Pass Series Dielectric Filters / 介质滤波器

DF Series (SMD type) Filter with high permittivity, high dielectric constants, extremely temperature stability and high Q that enables the design of stable microwave oscillators and filters. High dielectric materials and associated products are also available for custom application requirements. Applications for CT1, CT2, 900MHz, 1.8GHz, 2.4GHz, 5.8GHz Cordless Phone, wireless earphone, wireless microphone.

DF - A Type Filters Configuration



DF - A Type Dimensions (Unit: mm)

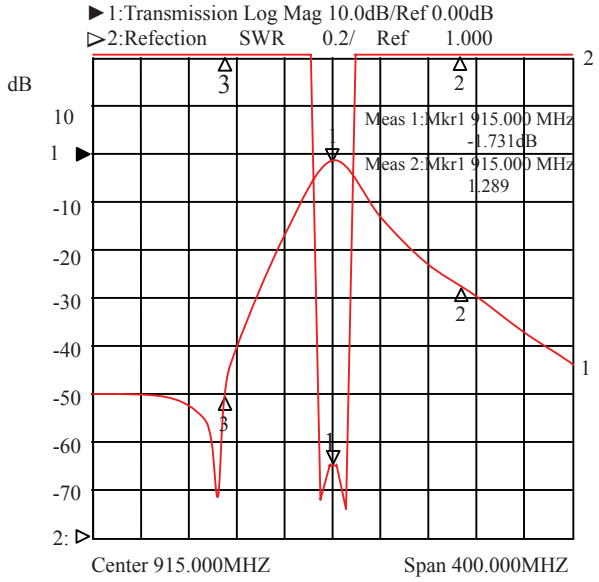


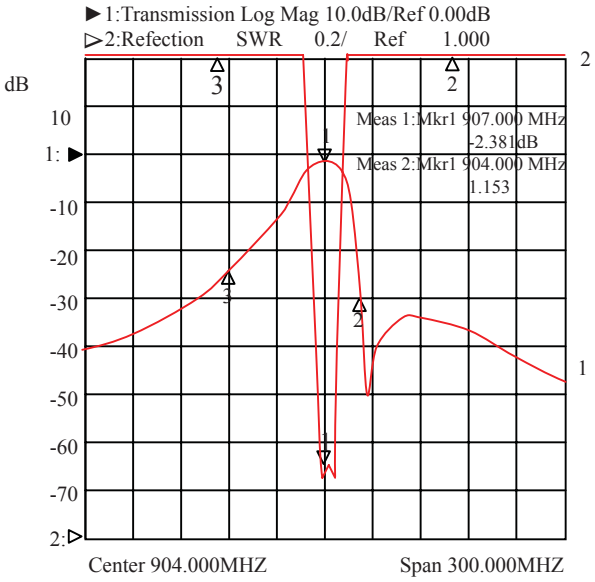
Unit: mm Tol: ±0.2

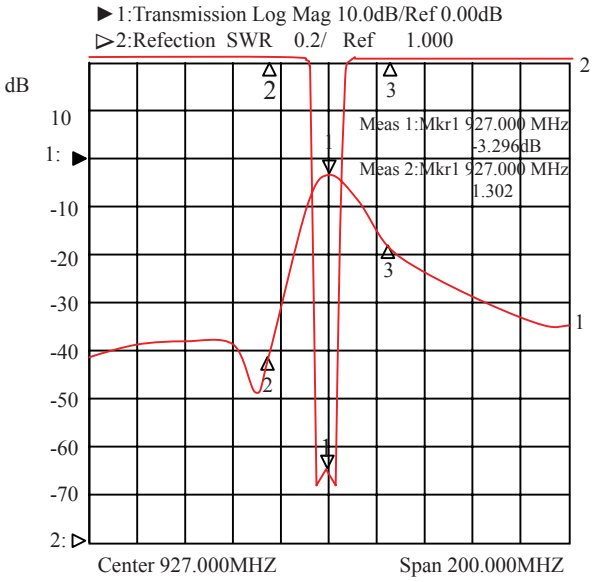
Band Pass DF Filter Typical Specifications

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

DF Filter Typical Characteristic







DF Band Pass Series Dielectric Filter

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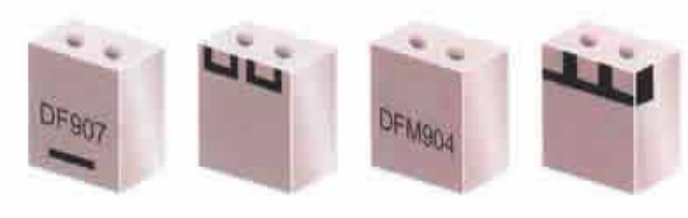
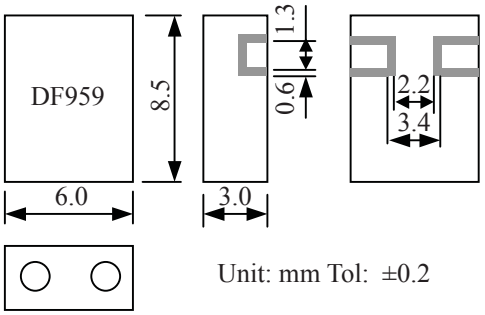
Band Pass Filters DF - B Type Configuration



DF - B Type Dimensions (Unit: mm)

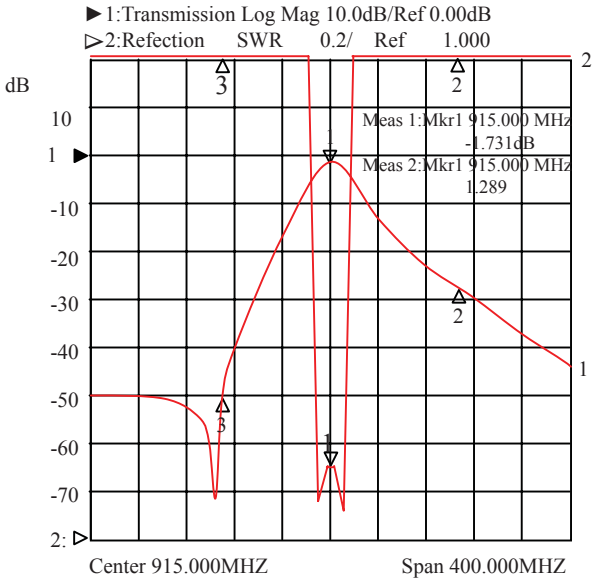


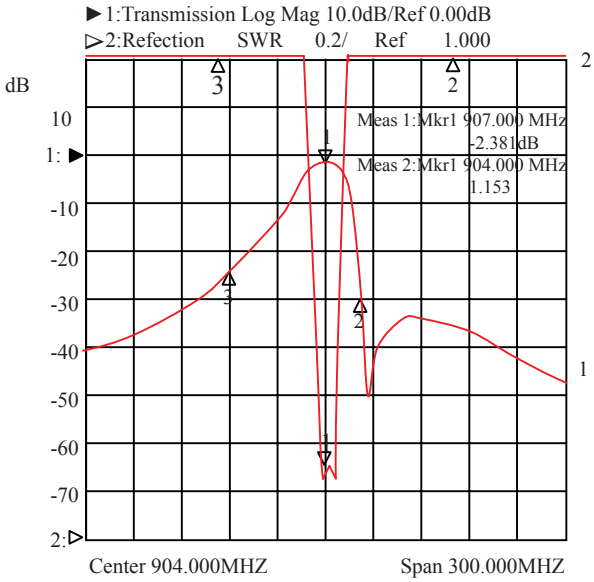
Unit: mm Tol: ±0.2

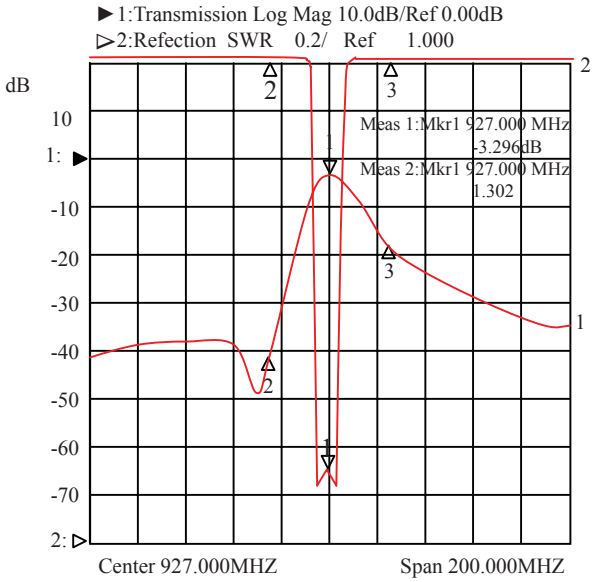
Dielectric DF Filter Typical Specifications

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)
DF650S30B	650	fo±15	2.5	0.5	1.5	19 at fo±64
DF700S20B	700	fo±10	2.5	0.5	1.5	19 at fo±64
DF710S08B	710	fo±4	5.0	0.5	1.5	35 at fo+100; 28 at fo+50
DF746S20B	746	fo±10	2.5	0.5	1.5	12 at fo-20
DF758S16B	758	fo±8	2.5	0.5	1.5	19 at fo±64
DF794S20B	794	fo±10	2.5	0.5	1.5	19 at fo±64
DF800S08B	800	fo±4	5.0	0.5	1.5	35 at fo+100; 28 at fo+50
DF836S20B	836	fo±10	2.5	0.5	1.5	19 at fo+52
DF850S08B	850	fo±4	5.0	0.5	1.5	30 at fo+100; 40 at fo-200
DF863S22B	863	fo±11	2.0	0.5	1.5	50 at fo-90; 20 at fo+90
DF875S24B	875	fo±12	2.3	0.5	1.5	30 at fo-70
DF903S09B	903	fo±4.5	3.5	0.5	1.5	34 at fo-64; 41 at fo+64
DF906S20B	906	fo±10	2.5	0.5	1.5	19 at fo±64
DF916S30B	916	fo±15	2.7	0.5	1.5	20.5 at fo±70

Filters Typical Characteristic





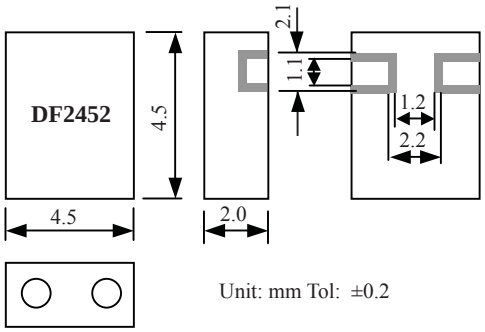


DF Band Pass Series Dielectric Filters / 帶通濾波器

DF Series (SMD type) Filter with high permittivity, high dielectric constants, extremely temperature stability and high Q that enables the design of stable microwave oscillators and filters. High dielectric materials and associated products are also available for custom application requirements. For CT1, CT2, 900MHz, 1.8GHz, 2.4GHz, 5.8GHz Cordless Phone.

DF - C & D Type Filter Configuration

DF - C & D Type Dimensions

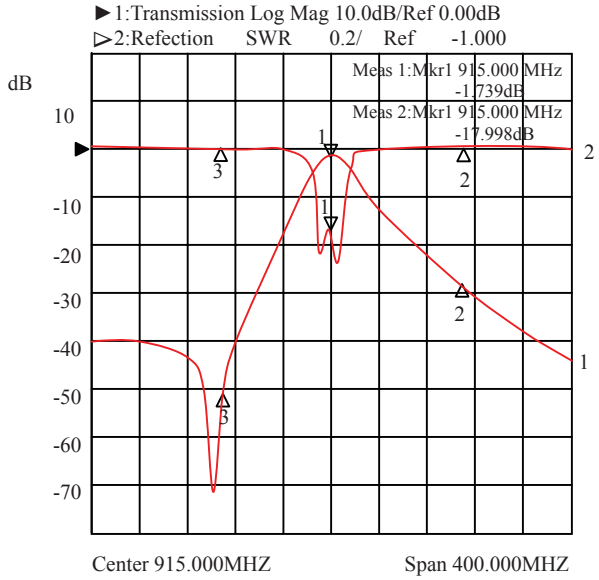


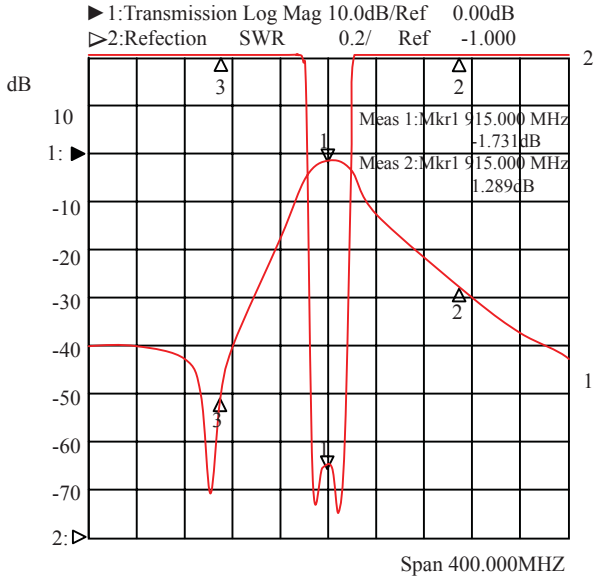
Unit: mm Tol: ±0.2

Band Pass Filter DF 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	fo±20	2.0	0.7	2.0	20 at fo-100; 18 at fo+100
DF1855S70C	1855	fo±35	2.0	0.7	2.0	20 at fo+300; 20 at fo-300
DF1890S80C	1890	fo±40	2.0	0.7	2.0	15 at fo+250; 35 at fo-250
DF1950S90C	1950	fo±45	3.0	0.7	2.0	45 at fo+975; 45 at fo-975
DF2332S100C	2332	fo±50	2.5	0.7	2.0	25 at fo+500; 40 at fo-500
DF2450S100C	2450	fo±50	2.0	0.7	2.0	12 at fo+250; 15 at fo-250
DF3066S170D	3066	fo±85	2.0	1.0	2.0	10 at fo+300; 15 at fo-300
DF3480S120D	3480	fo±60	2.0	1.0	2.0	10 at fo+500; 20 at fo-500
DF3650S150D	3650	fo±75	2.0	1.0	2.0	15 at fo+750; 25 at fo-750
DF4880S160D	4880	fo±80	2.0	1.0	2.0	5 at fo+350; 15 at fo-350
DF5800S200D	5800	fo±100	2.0	1.0	2.0	5 at fo+400; 15 at fo-400

Filter Typical Characteristic





How to Order (For 2 Pole)

DF	864	S	10	A
❶	❷	❸	❹	❺

❶ Dielectric Filter

❷ Center Frequency

❸ Connect Type S: SMD type

❹ Bandwidth

❺ Size

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

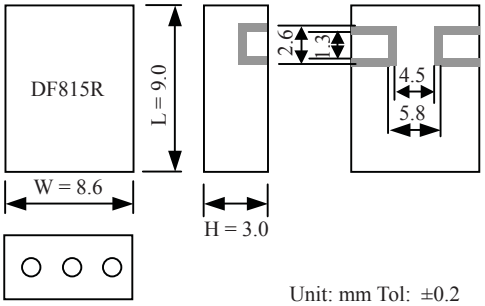
DF Band Pass Series

Dielectric Filters Features (Murata DFC Series Compatible)

1.MBP 42R Series.
2.For CT1, CT2, 900MH, 1.8GHz, 2.4G WLL Cordless phone.

Dielectric DF Filter Configuration

DF Dimensions (DF33R815S20B)

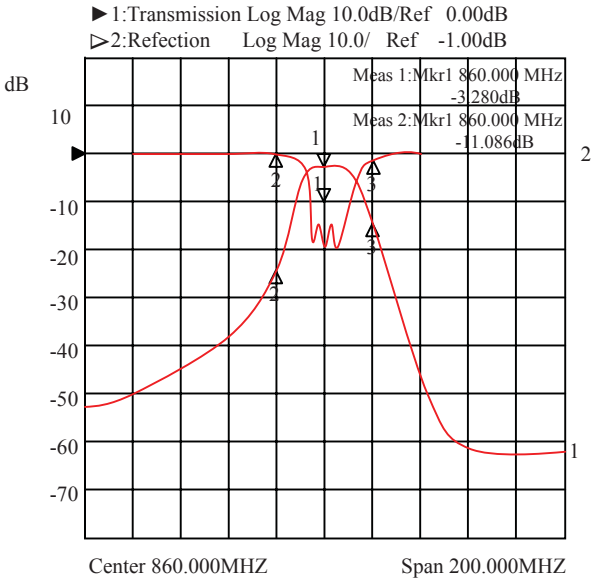


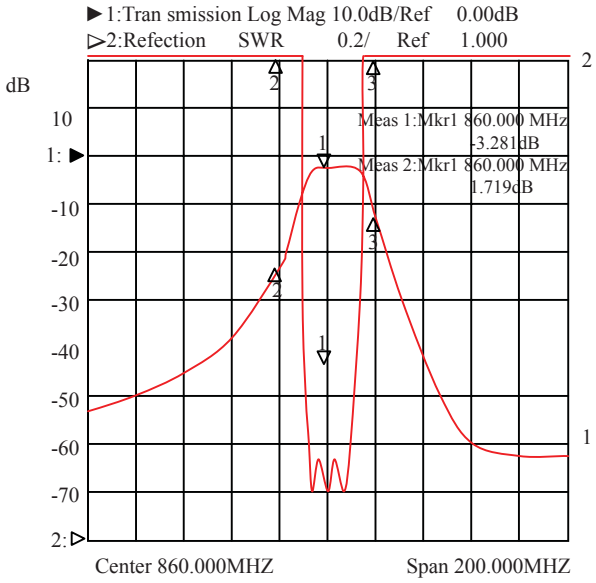
Unit: mm Tol: ±0.2

Dielectric DF Filters Typical Specifications

Part No.	Center Frequency fo(MHz)	Band Width (MHz)	Insertion Loss (dB) max.	Ripple in Band Width (dB)max.	V.S.W.R max.	Attenuation (dB) min.(MHz)
DF43R860S20A	860	fo±10	3.0	0.8	2.0	-25 at fo+30 -22 at fo-30
DF43R1855S10A	1855	fo±5	3.5	1.0	2.0	-30 at fo+100 -28 at fo-100
DF43R950S20A	950	fo±10	3.5	0.8	2.0	-40 at fo+30 -35 at fo-30
DF44R3120S60A	3120	fo±30	3.0	1.0	1.5	-58 at fo+355 -55 at fo-375
DF45R1120S40A	1120	fo±20	2.5	1.0	2.0	-50 at fo+50 -50 at fo-50
DF33R815S20B	815	fo±10	2.5	0.8	2.0	-18 at fo+40 -25 at fo-40
DF33R1880S50B	1880	fo±25	3.5	1.0	2.0	-40 at fo+150 -40 at fo-150
DF23R1480S40C	1480	fo±20	2.5	1.0	2.0	-20 at fo+150 -20 at fo-150
DF23R1960S60C	1960	fo±30	2.0	1.0	2.0	-20 at fo+200 -20 at fo-200
DF23R2480S30C	2480	fo±15	2.5	1.0	2.0	-20 at fo+250 -20 at fo-250
DF23R5800S200D	5800	fo±100	2.0	1.0	2.0	-5 at fo+400 -15 at fo-400

Filter Typical Charateristic





How to Order (For More Pole)

DF	3	3R	815	S	20	B
❶	❷	❸	❹	❺	❻	❼

❶ Dielectric Filter

❷ Thickness

Code	Thickness
4	3.8mm
3	3.0mm
2	2.0mm

❸ Number of Resonator

❹ Center Frequency (MHz)

❺ Connect type

Code	Connect type
S	SMD type

❻ Band width (MHz)

❼ Size(W×H)(mm)

Code	Size(W×H)(mm)
A	11.8×3.8
B	8.6×3.0
C	5.8×2.0

Band Pass Dielectric Series / 带通滤波器

Band Pass Filter Features

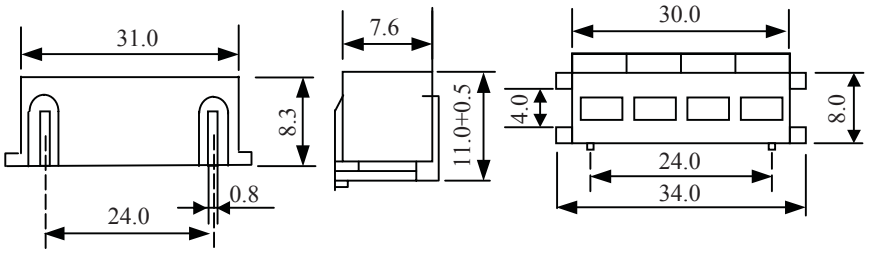
- SMD Type
- Small and light
- Temperature compensated
- Low insertion loss
- High frequency selectivity

Band Pass Filter Applicstions

- Cellular phone
- Cordless phone
- Trunked radio system
- Military affairs
- Base station

DF Filters Configuration

DF Dimensions



Dielectric DF Typical Specifications

Part No.	Center Frequency fo(MHz)	Band Width (MHz)	Insertion Loss (dB)max.	Ripple in Band Width(dB)max.	V.S.W.R max.	Attenuation (dB)min.(MHz)
BP63R915-01	915	fo±5	2.5	0.5	1.5	45 at fo±100
BP64R881-02	881	fo±10	2.0	0.5	2.0	60 at fo±100
BP84R650-01	650	fo±5	2.5	0.5	1.5	70 at fo ±55
BP84R1200-03	1200	fo±15	2.0	0.5	2.0	70 at fo ±60
BP74R959-02	959	fo±10	2.0	0.5	2.0	70 at fo ±80
BP75R836-01	836	fo±5	3.5	0.5	1.5	80 at fo ±50
BP76R1220-02	1220	fo±10	2.5	0.5	2.0	80 at fo ±50

How to Order

BP	3	4R	1765	-	01
❶	❷	❸	❹		❺

❶ Band Pass Filter

❷ Thickness

❸ Number of Resonator

❹ Center Frequency (MHz)

❺ BandWidth

Code	BandWidth
01	10MHz
02	20MHz
03	30MHz

DF Band Pass Series Dielectric Filters

Band Pass Filter Features

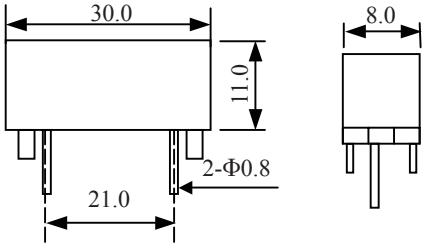
- SMD Type
- Small and light
- Temperature compensated
- Low insertion loss
- High frequency selectivity

Band Pass Filter Applicstions

- Cellular phone
- Cordless phone
- Trunked radio system
- Military affairs
- Base station

Dielectric DF Filters Configuration

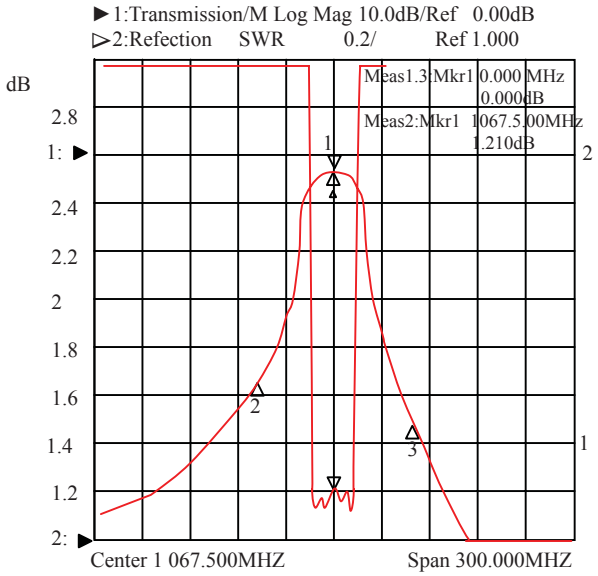
DF Dimensions

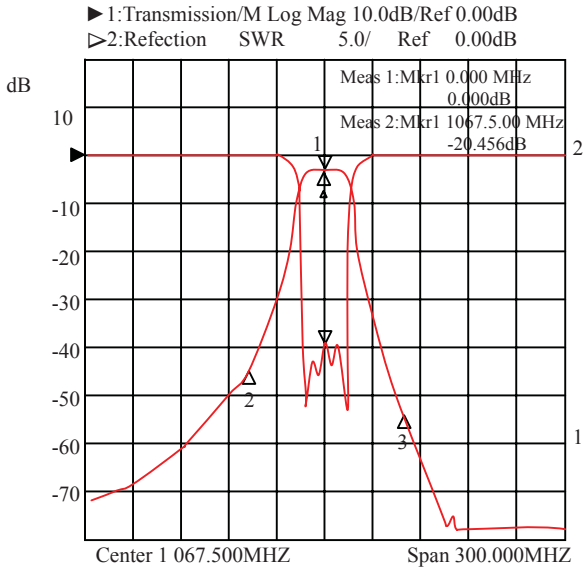


DF Filters Typical Specifications

Part No.	Center Frequency fo(MHz)	Band Width (MHz)	Insertion Loss (dB) max.	Ripple in Band Width(dB)max.	V.S.W.R max.	Attenuation (dB) min.(MHz)
LJ900-C-A	900	fo±10	2.5	0.5	1.5	50 at fo±100
LJ1200-C-B	1200	fo±15	2.0	0.8	2.0	50 at fo±110
LJ950-D-B	950	fo±10	2.5	0.5	1.5	60 at fo ±100
LJ1250-D-B	1250	fo±15	2.0	0.8	2.0	60 at fo ±110

Band Pass Filters Typical Charateristic





How to Order

LJ	900	-	C	A
❶	❷		❸	❹

❶ Dielectric Filter

❷ Center Frequency (MHz)

❸ Number of Resonator

Code	Number of Resonator
C	3
D	4

❹ Band Width

Code	Band Width
A	10 MHz
B	20 MHz

Band Pass Series Dielectric Filters

Features

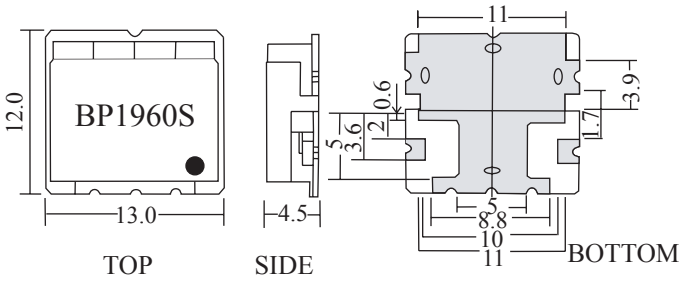
- SMD Type
- Small and light
- Temperature compensated
- Low insertion loss
- High frequency selectivity

Applicstions

- Cellular phone
- Cordless phone
- Trunked radio system
- Military affairs
- Base station

DF Band Pass Filter Configuration

DF Dimensions



Unit:mm Tol:±0.2

DF Band Pass Filters Typical Specifications

Part No.	Center Frequency fo(MHz)	Band Width (MHz)	Insertion Loss (dB)max.	Ripple in Band Width(dB)max.	V.S.W.R max.	Attenuation (dB)min.(MHz)
BP33R881S30A	881.5	fo±12.5	2.5	1.0	1.8	53 at fo±779
BP64R836S30A	836.5	fo±15	3.0	1.2	1.7	18 at fo±32.5
BP64R881S30A	881.5	fo±15	3.0	1.2	1.7	18 at fo ±32.5
BP34R1765S30A	1765	fo±15	3.5	1.0	1.8	30 at fo ±90
BP34R1855S30A	1855	fo±15	3.5	1.0	1.8	30 at fo ±90
BP55R1750S60A	1750	fo±30	3.0	1.5	1.7	30 at fo ±1810
BP55R1765S10A	1765	fo±5	5.0	1.0	1.8	20 at fo ±20
BP55R1765S30A	1765	fo±15	3.0	1.3	1.6	40 at fo ±80
BP55R1855S10A	1855	fo±5	5.0	1.0	1.8	20 at fo ±20
BP55R1855S30A	1855	fo±15	3.8	1.3	1.6	40 at fo ±80
BP66R1755S10A	1755	fo±5	10.0	1.0	2.0	22at fo ±1765
BP66R1845S10A	1845	fo±4.5	13.0	3.0	2.0	28 at fo ±1855
BP34R2315S30A	2315	fo±15	2.7	1.0	1.7	40 at fo ±160
BP34R2385S30A	2385	fo±15	2.7	1.0	1.7	40 at fo ±160
BP34R2442S80A	2442	fo±42	2.5	1.0	1.7	40 at fo ±160
BP64R409S10A	409.5	fo±3.5	3.0	0.8	1.7	30 at fo ±423
BP64R426S10A	426.5	fo±3.5	3.0	0.8	1.7	30 at fo ±413
BP66R1410S30A	1410	fo±14.5	3.0	1.0	1.5	18 at fo ±34.5
BP86R1474S10A	1474	fo±2.5	12.0	2.8	2.0	15 at fo ±10
BP34R1880S60A	1880	fo±32.5	2.5	1.0	1.5	18 at fo ±100
BP34R1960S60A	1960	fo±32.5	3.0	1.0	1.4	45 at fo ±130
BP34R1950S60A	1950	fo±30	3.0	1.0	1.8	38 at fo ±60
BP34R2140S60A	2140	fo±30	3.0	1.0	1.8	38 at fo ±60

How to Order

BP	3	4R	1765	S	30	A
❶	❷	❸	❹	❺	❻	❼

❶ Band Pass Filter

❷ Thickness

❸ Number of Resonator

❹ Center Frequency (MHz)

❺ Connect type s: SMD type

❻ BandWidth

Code	BandWidth
10	10MHz
30	30MHz
60	60MHz

❺ Version