

Multi layer Dielectric Filter

Features

- ★ Low height
- ★ Small package

Applications

- ★ Mobile phone
- ★ Cordless phone
- ★ GPS



Dimension (Unit : mm)

Spec.	DLF 43	DLF 32	DLF 31	DLF 22	DLF 21
Length(mm)	4.5	3.2	3.2	2.5	2.0
Width(mm)	3.2	2.5	1.6	2.0	1.25
Thickness (mm)	1.5	1.5	1.2,1.4	1.0 1.2, 1.5	1.0
Width a(mm)	0.6	0.6	0.6	0.5	0.4
Width b(mm)	0.5	0.4	0.4	0.2	0.2

1. Input 2. Output * GND

Specifications (Characteristics) for 4532 Type (Size : 4.5 x 3.2 x 1.5)

Part Number	Center Frequency (MHz)	Insertion Loss (MHz)	Band Width (MHz)	V.S.W.R. (in BW dB)	Ripple (dB)	Attenuation (dB)
DLF43B1527P45-N15	1527.00	≤ 3.0	± 42.0	≤ 2.0	≤ 1.0	≥ 35 (742~785MHz) ≥ 30 (902~929MHz) ≥ 40 (2226~2355MHz)

Specifications (Characteristics) for 4532 Type (Size : 4.5 x 3.2 x 1.5)

Part Number	Center Frequency (MHz)	Insertion Loss (MHz)	Band Width (MHz)	V.S.W.R. (in BW dB)	Ripple (dB)	Attenuation (dB)
DLF32B1890P47-N01	1890.00	≤ 2.2	± 10.0	≤ 2.0	≤ 1.0	≥ 35 (at 1665MHz) ≥ 15 (at 2115MHz) ≥ 25 (at 5670MHz)
DLF32B1907P47-N01	1906.00	≤ 2.0	± 13.5	≤ 2.0	≤ 1.0	≥ 20 (at 1680MHz) ≥ 12 (at 2130MHz) ≥ 30 (at 3810MHz) ≥ 25 (at 5720MHz)
DLF32B1907P78-N33	1906.5	≤ 3.0	± 13.5	≤ 2.0	≤ 0.8	≥ 40 (1413~1440MHz) ≥ 35 (1653~1680MHz) ≥ 30 (2133~2160MHz) ≥ 20 (at 2128MHz) ≥ 30 (at 2361MHz)
DLF32B2450P56-N47	2450.00	≤ 2.5	± 50.0	≤ 2.0	≤ 1.0	≥ 42 (at 1950MHz) ≥ 22 (at 2200MHz) ≥ 9.5 (at 2700MHz) ≥ 26 (at 2950MHz) ≥ 35 (4900MHz)
DLF32B2450P56-N04	2450.00	≤ 1.8	± 50.0	≤ 2.0	≤ 0.5	≥ 48 (902~928MHz) ≥ 50 (1500~1550MHz) ≥ 12 (2150~2200MHz) ≥ 30 (4800~5000MHz)

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Specifications (Characteristics) for 2532 Type (Size : 2.5 x 3.2 x 1.5)

Part Number	Center Frequency (MHz)	Insertion Loss (MHz)	Band Width (MHz)	V.S.W.R. (in BW dB)	Ripple (dB)	Attenuation (dB)
DLF23B1890P56-N30/1	1890.00	≤ 1.8	± 10.0	≤ 2.0	≤ 0.5	≥ 26 (1600~1680MHz) ≥ 35 (at 3780MHz) ≥ 25 (at 5670MHz)
DLF23B2450P45-N27	2450.00	≤ 2.0	± 50.0	≤ 2.0	≤ 1.0	≥ 35 (at 1750MHz) ≥ 30 (at 2100MHz) ≥ 22 (4800~5000MHz)
DLF23B1907P56-N30/2	1906.50	≤ 1.8	± 13.5	≤ 2.0	≤ 0.5	≥ 28 (1440MHz) ≥ 25 (1680MHz) ≥ 32 (at 3815MHz) ≥ 25 (at 5720MHz)

Specifications (Characteristics) for 1632 Type (Size : 1.6 x 3.2 x 1.4)

Part Number	Center Frequency (MHz)	Insertion Loss (MHz)	Band Width (MHz)	V.S.W.R. (in BW dB)	Ripple (dB)	Attenuation (dB)
DLF13B1907P56-N32	1906.5	≤ 1.0	± 13.5	≤ 2.0	≤ 1.0	≥ 40 (1405~1440MHz) ≥ 10 (1649~1680MHz) ≥ 24 (3876~3840MHz) ≥ 24 (5679~5760MHz)

Specifications (Characteristics) for 3216 Type (Size : 3.2 x 1.6 x 1.2/1.4)

Part Number	Center Frequency (MHz)	Insertion Loss (MHz)	Band Width (MHz)	V.S.W.R. (in BW dB)	Ripple (dB)	Attenuation (dB)
DLF31B1907P58-N29	1906.50	≤ 2.7	± 13.5	≤ 2.0	≤ 1.0	≥ 40 (1440~1460MHz) ≥ 35 (1660~1680MHz) ≥ 15 (2130~2150MHz)
DLF31B2450P56-N22	2450.00	≤ 2.3	± 50.0	≤ 2.0	≤ 0.8	≥ 38 (902~928MHz) ≥ 22 (2100~2200MHz) ≥ 30 (4800~5000MHz)
DLF31B5800P36-N20	5800.00	≤ 2.0	± 50.0	≤ 2.0	≤ 1.0	≥ 35 (at 2000MHz) ≥ 30 (at 3000MHz) ≥ 30 (8500~9000MHz)

Specifications (Characteristics) for 2520 Type (Size : 2.5 x 2.0 x 1.5/1.2/1.0)

Part Number	Center Frequency (MHz)	Insertion Loss (MHz)	Band Width (MHz)	V.S.W.R. (in BW dB)	Ripple (dB)	Attenuation (dB)
DLF22B1907P47-N31	1906.50	≤ 1.5	± 13.5	≤ 2.0	≤ 1.0	≥ 15 (1660~1680MHz) ≥ 10 (2130~2150MHz) ≥ 23 (at 3814MHz)
DLF22B1907P56-N34	1906.50	≤ 2.5	± 13.5	≤ 2.0	≤ 0.5	≥ 40 (at 1660MHz) ≥ 15 (at 2139MHz) ≥ 20 (at 3815MHz)
DLF22B2450P47-N21	2450.00	≤ 1.2	± 50.0	≤ 2.0	≤ 0.6	≥ 30 (1710~1785MHz) ≥ 35 (1850~1910MHz) ≥ 25 (4800~5000MHz)

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Specifications (Characteristics) for 2520 Type (Size : 2.5 x 2.0 x 1.5/1.2/1.0)

Part Number	Center Frequency (MHz)	Insertion Loss (MHz)	Band Width (MHz)	V.S.W.R. (in BW dB)	Ripple (dB)	Attenuation (dB)
DLF22B2450P47-N24	2450.00	≤ 1.7	± 50.0	≤ 2.0	≤ 1.0	≥ 30 (at 1750MHz) ≥ 25 (at 2100MHz) ≥ 30 (at 4900MHz)
DLF22B2450P57-N06	2450.00	≤ 2.5	± 50.0	≤ 2.0	≤ 1.0	≥ 45 (800~915MHz) ≥ 40 (1710~1950MHz) ≥ 35 (at 2100MHz) ≥ 28 (4800~5000MHz) ≥ 30 (7200~7500MHz)
DLF22B5800P45-N58	5787.50	≤ 2.3	± 62.5	≤ 2.0	≤ 1.0	≥ 50 (902~928MHz) ≥ 34 (3919~4044MHz) ≥ 30 (4822~4947MHz)

Specifications (Characteristics) for 2012 Type (Size : 2.0 x 1.25 x 1.0)

Part Number	Center Frequency (MHz)	Insertion Loss (MHz)	Band Width (MHz)	V.S.W.R. (in BW dB)	Ripple (dB)	Attenuation (dB)
DLF21B2450P47-N26	2450.00	≤ 1.4	± 50.0	≤ 2.0	≤ 0.8	≥ 35 (880~915MHz) ≥ 33 (1710~1910MHz) ≥ 10 (2110~2170MHz) ≥ 30 (4800~5000MHz)
DLF21B4885P45-N23	4885.00	≤ 2.5	± 62.5	≤ 2.0	≤ 1.0	≥ 30 (1607~1649MHz) ≥ 30 (3214~3298MHz) ≥ 28 (6429~6596MHz)
DLF21B5510P67-N25	5510.00	≤ 2.3	± 63.0	≤ 2.0	≤ 1.2	≥ 30 (500~400MHz) ≥ 20 (at 4600MHz) ≥ 30 (at 10300~11800MHz)
DLF21B5510P45-N25	5787.50	≤ 2.3	± 62.5	≤ 2.0	≤ 1.0	≥ 50 (902~928MHz) ≥ 34 (3919~4044MHz) ≥ 30 (4822~4947MHz)
DLF21B5510P45-N25	5787.50	≤ 2.3	± 62.5	≤ 2.0	≤ 1.0	≥ 50 (902~928MHz) ≥ 34 (3919~4044MHz) ≥ 30 (4822~4947MHz)

Part Number and Ordering Code

Part Number Code	Product Code Dielectric Laminated Filter DLF	Planar Dimension See Dimension Figure	Filter Type B : Band Pass L : Low Pass H : High Pass X : Trap	Band Width	Design Series P : Planar Design H : Via Hole Design	Design Code	Type N : Normal C : Trial S : Special	Type Code
Ordering Code	Same As Above							
Example	DLF	32	B	1890	P	47	N	01