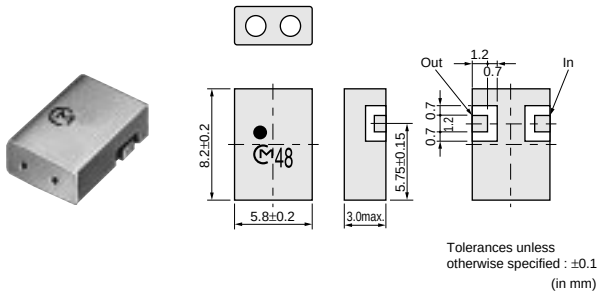
Dielectric Filters (GIGAFIL®)

Band Pass Filters

DFCB Series 800/900MHz

■ Features

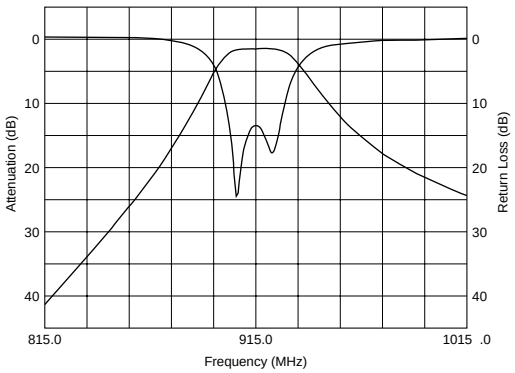
1. Low insertion loss for using high Q-value dielectric resonators
2. Small and light for using high dielectric constant ceramics
3. Excellent temperature stability for temperature compensated dielectric constant (0+-5 ppm/degree C max.)
4. Excellent mechanical stability without vibratile structure
5. SMD and reflow soldering available
6. Mountable by automatic placement machine



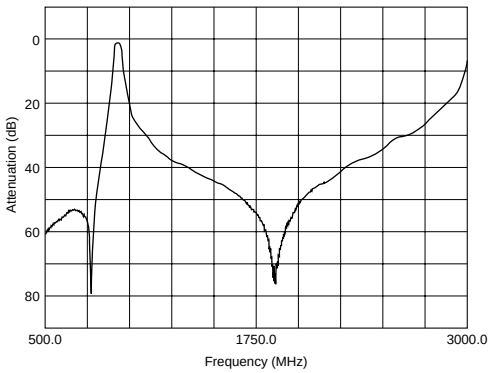
Tolerances unless otherwise specified : ±0.1
(in mm)

■ Characteristics

Pass Band: DFCB2915MLDJAA



Spurious: DFCB2915MLDJAA



Application	Part Number	fo (MHz)	Bandwidth (MHz)	IL at BW (dB max.)	Attenuation (dB min.)	Operation Temp. (°C)
AMPS	**DFCB2836MLDJAA**	836.5	25	2.6	6.5 (869 to 894MHz)	-30 to +85
CT2	**DFCB2841MLEJAA**	841	4	3.0	38 (Fo-150MHz)	-30 to +85
CT2	**DFCB2866MLEJAA**	866	4	3.0	38 (Fo-150MHz)	-30 to +85
AMPS	**DFCB2881MLDJAA**	881.5	25	2.6	9 (824 to 849MHz)	-30 to +85
CT1+	**DFCB2886MLEJAA**	886	2	3.0	24 (Fo-44MHz)	-30 to +85
GSM	**DFCB2902MLDJAA**	902.5	25	2.6	27 (Fo-77.5MHz)	-30 to +85
WLAN915	**DFCB2903MLEJAA**	903	2	3.0	20 (Fo+22MHz)	-30 to +85
CT2	**DFCB2912MLDJAA**	912	4	2.0	50 (Fo-150MHz)	-30 to +85
CT2	**DFCB2912MLEJAA**	912	4	3.0	38 (Fo-150MHz)	-30 to +85
CT1	**DFCB2914MLEJAA**	914.5	1	3.0	24 (Fo-44MHz)	-30 to +85
WLAN915	**DFCB2915MLDJAA**	915	26	2.5	27 (837.5MHz)	-35 to +85
WLAN915	**DFCB2926MLEJAA**	926.25	2.7	2.8	21 (902.4 to 905.1MHz)	-30 to +85
WLAN915	**DFCB2927MLEJAA**	927	2	3.0	15 (Fo-22MHz)	-30 to +85
CT1+	**DFCB2931MLEJAA**	931	2	3.0	24 (Fo-44MHz)	-30 to +85
GSM	**DFCB2947MLDJAA**	947.5	25	2.6	27 (Fo-77.5MHz)	-30 to +85
CT1	**DFCB2959MLEJAA**	959.5	1	3.0	30 (Fo+44MHz)	-30 to +85
LMR	**DFCB3815MLDJAA**	815.5	19	2.5	12 (Fo±35.5MHz)	-30 to +85
AMPS	**DFCB3836MLDJAA**	836.5	25	3.0	12 (869 to 894MHz)	-30 to +85
CT2	**DFCB3841MLEJAA**	841	4	5.3	60 (Fo-150MHz)	-30 to +85
LMR	**DFCB3860MLDJAA**	860.5	19	2.5	13 (Fo-35.5MHz)	-30 to +85

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Application	Part Number	fo (MHz)	Bandwidth (MHz)	IL at BW (dB max.)	Attenuation (dB min.)	Operation Temp. (°C)
CT2	**DFCB3866MLEJAA**	866	4	5.3	60 (Fo-150MHz)	-30 to +85
AMPS	**DFCB3881MLDJAA**	881.5	25	3.0	15 (824 to 849MHz)	-30 to +85
CT1+	**DFCB3886MLEJAA**	886	2	5.3	45 (Fo-44MHz)	-30 to +85
GSM	**DFCB3902MLDJAA**	902.5	25	3.0	45 (Fo-77.5MHz)	-30 to +85
WLAN915	**DFCB3903MLEJAA**	903	2	5.3	29 (Fo-22MHz)	-30 to +85
CT2	**DFCB3912MLEJAA**	912	4	5.3	60 (Fo-150MHz)	-30 to +85
CT1	**DFCB3914MLEJAA**	914.5	1	5.3	45 (Fo-44MHz)	-30 to +85
WLAN915	**DFCB3915MLDJAA**	915	26	3.0	15 (Fo-32.5MHz)	-30 to +85
WLAN915	**DFCB3927MLEJAA**	927	2	5.3	29 (Fo-22MHz)	-30 to +85
CT1+	**DFCB3931MLEJAA**	931	2	5.3	45 (Fo-44MHz)	-30 to +85
GSM	**DFCB3947MLDJAA**	947.5	25	3.0	45 (Fo-77.5MHz)	-30 to +85
CT1	**DFCB3959MLEJAA**	959.5	1	5.3	45 (Fo-44MHz)	-30 to +85

DFCB Series 1.5-5GHz

■ Features

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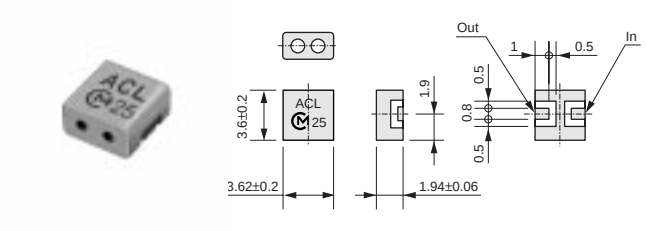
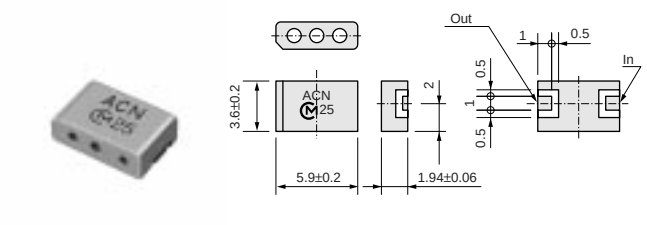


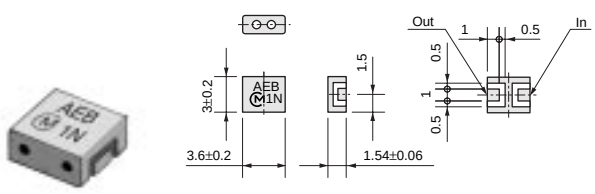
DFCB22G33LBJAA

Tolerances unless otherwise specified : ±0.1 (in mm)



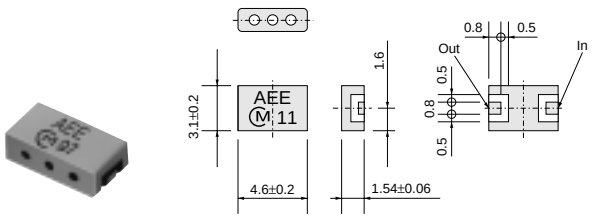
DFCB32G33LBJAA

Tolerances unless otherwise specified : ±0.1 (in mm)



DFCB25G25LAHAA

Tolerances unless otherwise specified : ±0.1 (in mm)

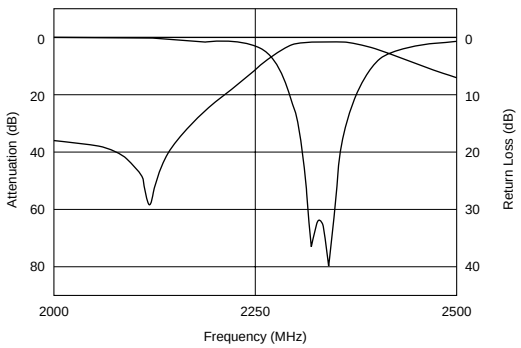


DFCB35G25LAHAA

Tolerances unless otherwise specified : ±0.1 (in mm)

■ Characteristics

Pass Band: DFCB22G33LBJAA



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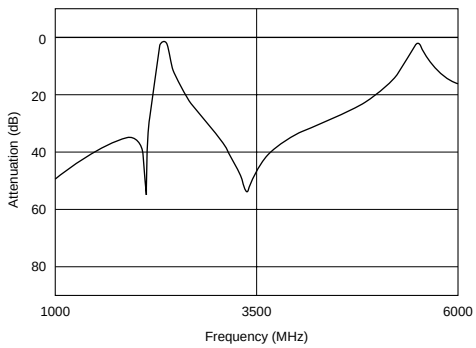

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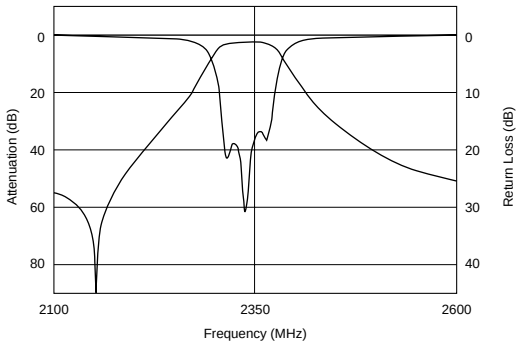
■ Characteristics

Pass Band: DFCB32G33LBJAA



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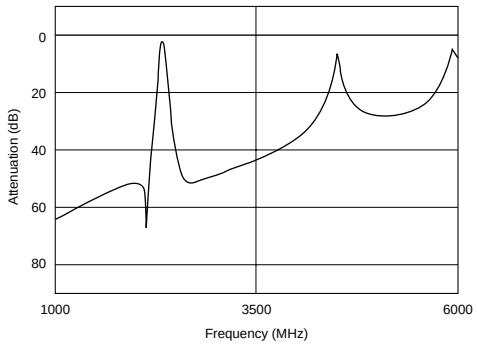

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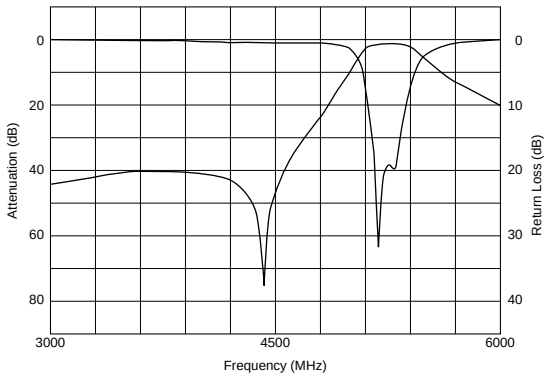

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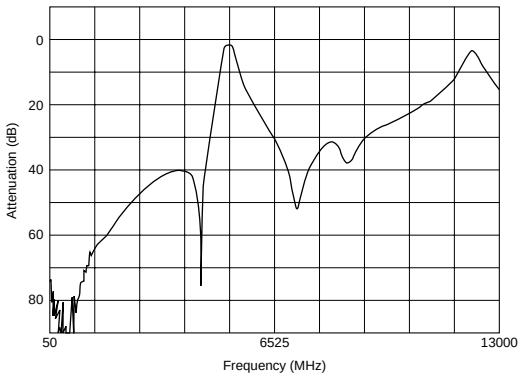

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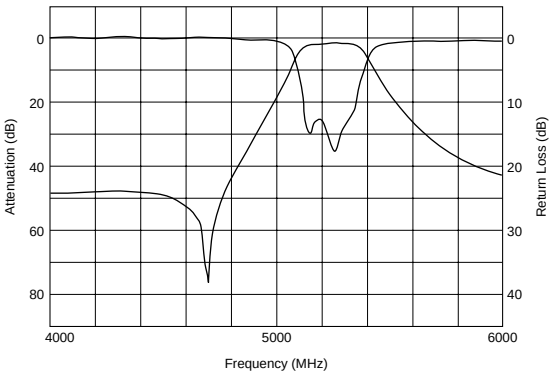

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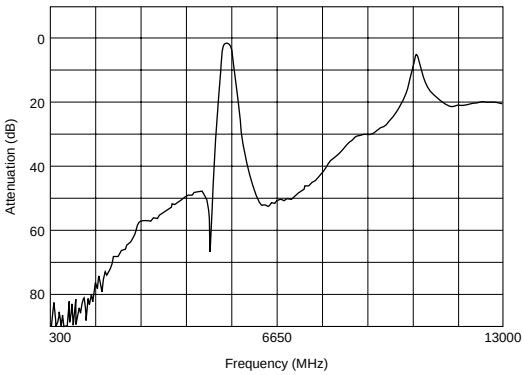

Application	Part Number	fo (MHz)	Bandwidth (MHz)	IL at BW (dB max.)	Attenuation (dB min.)	Operation Temp. (°C)
DAB	**DFCB21G47LBJAA**	1472	40	2.0	38 (1122MHz)	-30 to +85
PDC1.5	**DFCB21G48LBJAA**	1489	24	1.4	10 (1607 to 1631MHz)	-30 to +85
GPS	**DFCB21G57LBJAB**	1575.42	3	1.3	37 (1850 to 1910MHz)	-35 to +85
GPS	**DFCB21G57LCJAA**	1575.42	2	3.5	15 (Fo±50MHz)	-30 to +85
GPS	**DFCB21G57LDJAB**	1575.42	2	3.15	18 (Fo±50MHz)	-30 to +85
DCS1800	**DFCB21G84LDJAA**	1842.5	75	2.0	20 (Fo-160MHz)	-35 to +85
PCS1.9	**DFCB21G88LDJAA**	1880	60	1.5	17 (2280MHz)	-30 to +85
DECT	**DFCB21G89LBJAA**	1890	20	2.0	40 (1660 to 1680MHz)	-30 to +85
DECT	**DFCB21G89LBJAB**	1890	20	1.7	35 (1660 to 1680MHz)	-30 to +85
DECT	**DFCB21G89LDHAA**	1890	20	0.9	27 (1655 to 1679MHz)	-10 to +55
DECT	**DFCB21G89LDJAA**	1890	20	2.0	45 (1660 to 1680MHz)	-30 to +85
PHS	**DFCB21G90LBJAA**	1907.5	25	1.0	20 (1655 to 1680MHz)	-15 to +55

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Application	Part Number	fo (MHz)	Bandwidth (MHz)	IL at BW (dB max.)	Attenuation (dB min.)	Operation Temp. (°C)
PHS	**DFCB21G90LBJAB**	1907.5	25	1.6	35 (1655 to 1680MHz)	-15 to +55
PHS	**DFCB21G90LBJAC**	1907.5	25	1.9	45 (1655 to 1680MHz)	-15 to +55
DECT (CHINA)	**DFCB21G91LBJAA**	1910	20	1.7	34 (1675 to 1700MHz)	-30 to +85
DECT (CHINA)	**DFCB21G91LDJAA**	1910	20	1.8	40 (1675 to 1700MHz)	-30 to +85
CDMA1.9	**DFCB21G92LBJAA**	1920	20	1.2	20 (1655 to 1694MHz)	-30 to +85
CDMA1.9	**DFCB21G92LDJAA**	1920	20	1.9	16 (1800 to 1820MHz)	-30 to +85
PCS1.9	**DFCB21G96LDJAA**	1960	60	1.5	17 (2360MHz)	-30 to +85
TD-SCDMA	**DFCB22G01LBJAA**	2017.5	15	1.5	35 (1270MHz)	-35 to +85
W-CDMA	**DFCB22G14LBJAA**	2140	60	2.7	26 (1920 to 1980MHz)	-30 to +85
Sirius Radio	**DFCB22G32LBJAA**	2326	14	1.8	8.5 (2227MHz)	-35 to +85
XM Satellite	**DFCB22G33LBJAA**	2339	14	1.8	8.5 (2240MHz)	-35 to +85
WLAN2.4	**DFCB22G44LANAA**	2441.5	83	1.5	35 (2000MHz)	-35 to +85
WLAN2.4	**DFCB22G44LBJAA**	2442	84	2.0	16 (Fo-250MHz)	-30 to +85
WLAN2.4	**DFCB22G45LBJAA**	2450	100	2.0	15 (Fo-250MHz)	-30 to +85
WLAN2.4	**DFCB22G48LBJAA**	2484	26	2.0	27.5 (Fo-204MHz)	-30 to +85
VICS	**DFCB22G50LBJAA**	2500	4	4.5	20 (2440MHz)	-30 to +85
WLAN5G	**DFCB25G25LAHAA**	5250	200	1.5	38 (4370 to 4510MHz)	-35 to +85
WLAN5G	**DFCB25G59LAHAA**	5597.5	255	1.5	11 (Fo-375MHz)	-35 to +85
WLAN5G	**DFCB25G77LAHAA**	5775	100	1.5	12 (Fo-375MHz)	-35 to +85
ETC	**DFCB25G80LBHAA**	5800	100	2.0	25 (Fo-375MHz)	-30 to +85
DAB	**DFCB31G47LBJAA**	1472	40	3.0	45 (1100MHz)	-35 to +85
DCS1800	**DFCB31G74LBJAA**	1747.5	75	3.5	45 (1464 to 1539MHz)	-30 to +85
DCS1800	**DFCB31G84LBJAA**	1842.5	75	3.5	45 (1559 to 1634MHz)	-30 to +85
DCS1800	**DFCB31G84LBJAB**	1842.5	75	2.75	45 (0.3 to 1388MHz)	-30 to +85
PCS1.9	**DFCB31G88LBJAA**	1880	60	3.7	5 (1930MHz)	-30 to +85
PCS1.9	**DFCB31G88LBJAB**	1880	60	4.0	41 (2043 to 2103MHz)	-30 to +85
W-CDMA	**DFCB31G95LBJAA**	1950	60	3.5	35 (2110 to 2170MHz)	-30 to +85
PCS1.9	**DFCB31G96LBJAA**	1960	60	3.7	5 (1910MHz)	-30 to +85
PCS1.9	**DFCB31G96LBJAB**	1960	60	3.0	10 (1498 to 1860MHz)	-30 to +85
PCS1.9	**DFCB31G96LBJAC**	1960	60	2.8	10 (1860MHz)	-30 to +85
PCS1.9	**DFCB31G96LBJAE**	1960	60	3.7	20 (2065 to 2125MHz)	-35 to +85
W-CDMA	**DFCB32G14LBJAA**	2140	60	3.7	30 (1920 to 1980MHz)	-30 to +85
Sirius Radio	**DFCB32G32LBJAA**	2326	14	3.0	24 (2227MHz)	-35 to +85
XM Satellite	**DFCB32G33LBJAA**	2339	14	3.0	24 (2240MHz)	-35 to +85
WLAN2.4	**DFCB32G44LBJAA**	2442	84	3.2	30 (Fo-250MHz)	-30 to +85
WLAN2.4	**DFCB32G45LBJAA**	2450	100	3.2	30 (Fo-250MHz)	-30 to +85
WLAN5G	**DFCB35G25LAHAA**	5250	200	3.3	45 (4450 to 4650MHz)	-35 to +85
WLAN5G	**DFCB35G59LAHAA**	5597.5	255	3.6	45 (4750 to 5000MHz)	-35 to +85
WLAN5G	**DFCB35G77LAHAA**	5775	100	3.0	30 (Fo-375MHz)	-35 to +85
WLAN5G	**DFCB35G80LBHAA**	5800	150	3.4	10 (Fo-175MHz)	-35 to +85

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DFCH Series 800/900MHz

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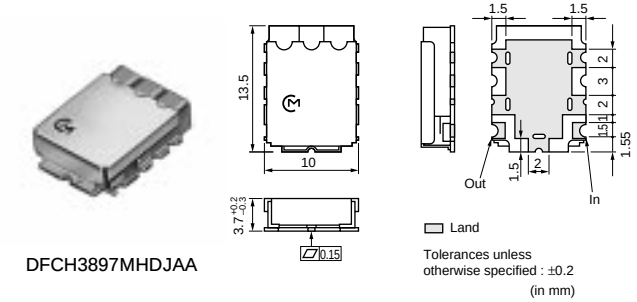
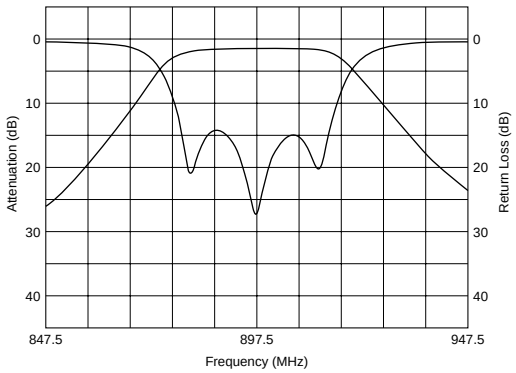


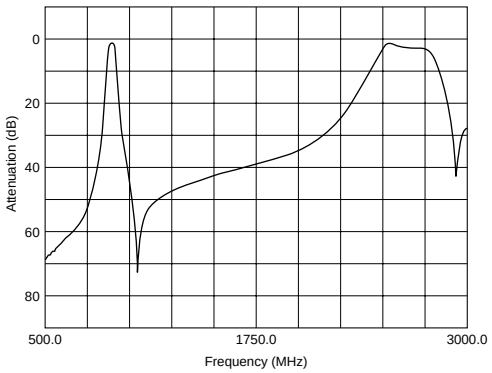
DFCH3897MHDJAA

■ Characteristics

Pass Band: DFCH3897MHDJAA



Spurious: DFCH3897MHDJAA



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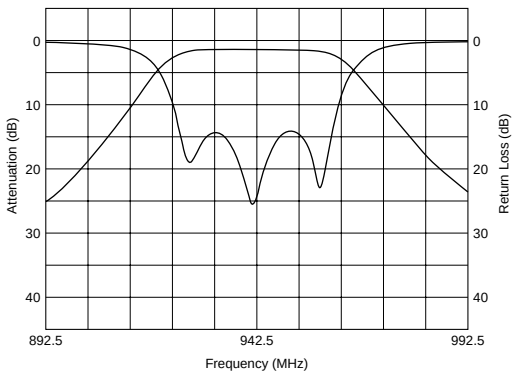

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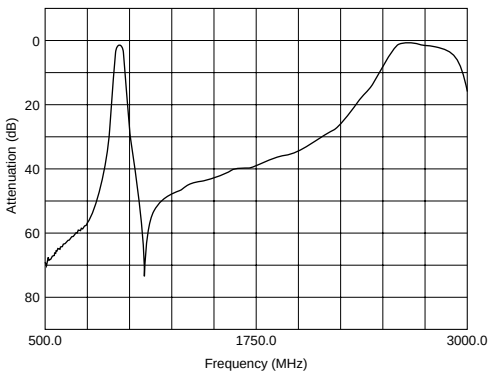

Application	Part Number	fo (MHz)	Bandwidth (MHz)	IL at BW (dB max.)	Attenuation (dB min.)	Operation Temp. (°C)
LMR	**DFCH3815MHDJAA**	815	20	2.8	36 (Fo±80MHz)	-30 to +85
AMPS	**DFCH3836MHDJAA**	836.5	25	2.6	12 (Fo±32.5MHz)	-30 to +85
LMR	**DFCH3860MHDJAA**	860	20	2.8	36 (Fo±80MHz)	-30 to +85
AMPS	**DFCH3881MHDJAA**	881.5	25	2.6	12 (Fo±32.5MHz)	-30 to +85
ETACS	**DFCH3888MHDJAA**	888.5	33	3.0	7 (Fo±28.5MHz)	-30 to +85
EGSM	**DFCH3897MHDJAA**	897.5	35	3.0	6 (Fo±27.5MHz)	-30 to +85
GSM	**DFCH3902MHDJAA**	902.5	25	2.6	12 (Fo±32.5MHz)	-30 to +85
ETACS	**DFCH3933MHDJAA**	933.5	33	3.0	7 (Fo±28.5MHz)	-30 to +85
EGSM	**DFCH3942MHDJAA**	942.5	35	3.0	6 (Fo±27.5MHz)	-30 to +85
GSM	**DFCH3947MHDJAA**	947.5	25	2.6	12 (Fo±32.5MHz)	-30 to +85
ETACS	**DFCH4888MHDJAA**	888.5	33	4.6	15 (Fo±28.5MHz)	-30 to +85

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Application	Part Number	fo (MHz)	Bandwidth (MHz)	IL at BW (dB max.)	Attenuation (dB min.)	Operation Temp. (°C)
EGSM	**DFCH4897MHDJAA**	897.5	35	4.6	13 (Fo±27.5MHz)	-30 to +85
ETACS	**DFCH4933MHDJAA**	933.5	33	4.6	15 (Fo±28.5MHz)	-30 to +85
EGSM	**DFCH4942MHDJAA**	942.5	35	4.6	13 (Fo±27.5MHz)	-30 to +85

1

DFCH Series 1.5-2.5GHz

■ Features

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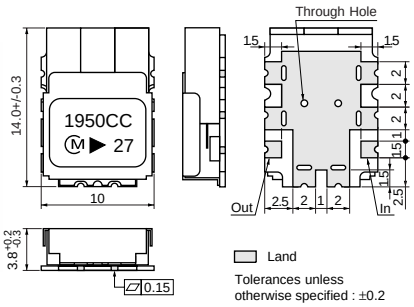
DFCH31G95HDHAA



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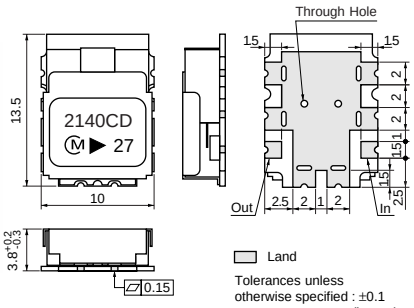
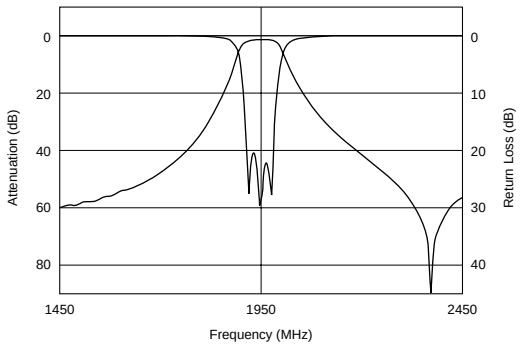
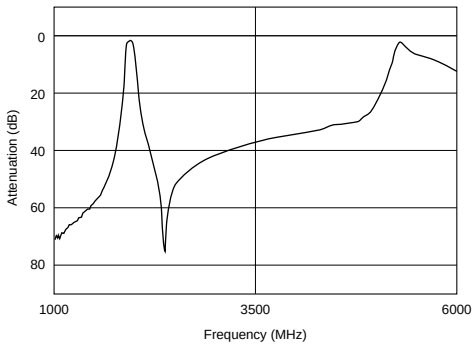


■ Characteristics

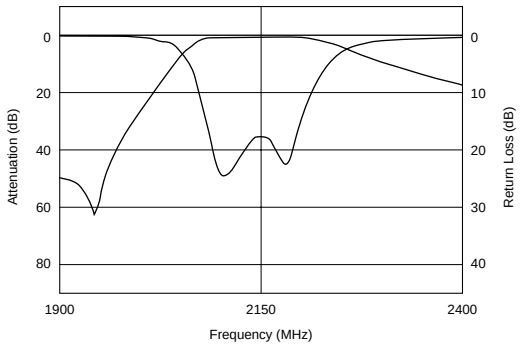
Pass Band: DFCH31G95HDHAA



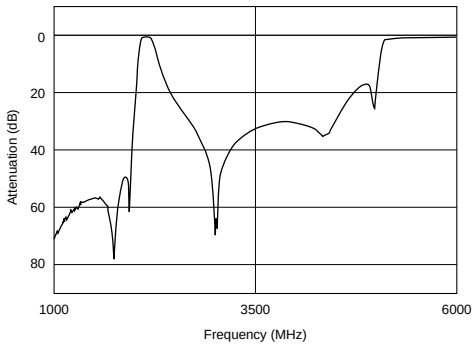
Spurious: DFCH31G95HDHAA



Pass Band: DFCH32G14HDHA



Spurious: DFCH32G14HDHA



Application	Part Number	fo (MHz)	Bandwidth (MHz)	IL at BW (dB max.)	Attenuation (dB min.)	Operation Temp. (°C)
GPS	**DFCH21G57HDHAA**	1575.5	2	0.9	16 (Fo-140MHz)	-30 to +85
PHS	**DFCH21G90HDJAA**	1907.5	25	0.7	35 (Fo-227.5MHz)	-30 to +85
WLAN2.4	**DFCH22G44HDHAA**	2442	84	1.2	15 (Fo±250MHz)	-30 to +85
WLAN2.4	**DFCH22G45HDHAA**	2450	100	1.0	16 (Fo-250MHz)	-30 to +85
WLAN2.4	**DFCH22G48HDHAA**	2484	26	2.5	47 (Fo-270MHz)	-30 to +85
VICS	**DFCH22G50HDHAA**	2500	4	2.4	10 (Fo±60MHz)	-30 to +85
MSAT	**DFCH31G54HDJAA**	1542	34	3.0	30 (1626.5 to 1660.5MHz)	-30 to +85
MSAT	**DFCH31G64HDJAA**	1643.5	34	3.0	30 (1525 to 1559MHz)	-30 to +85
DCS1800	**DFCH31G74HDJAA**	1747.5	75	2.0	8 (Fo±80MHz)	-30 to +85
DCS1800	**DFCH31G84HDJAA**	1842.5	75	2.0	8 (Fo±80MHz)	-30 to +85
PCS1.9	**DFCH31G88HDJAA**	1880	60	2.2	15 (Fo±100MHz)	-30 to +85
W-CDMA	**DFCH31G95HDHAA**	1950	60	1.8	45 (1550MHz)	-30 to +85
PCS1.9	**DFCH31G96HDJAA**	1960	60	2.2	15 (Fo±100MHz)	-30 to +85
W-CDMA	**DFCH32G14HDHAA**	2140	60	1.3	52 (1325 to 1385MHz)	-30 to +85
MMDS	**DFCH32G15HDHAB**	2156	20	3.0	36 (2050MHz)	-35 to +85
WLAN2.4	**DFCH32G44HDHAA**	2442	84	2.4	36 (Fo-250MHz)	-30 to +85
WLAN2.4	**DFCH32G45HDHAA**	2450	100	2.3	36 (Fo-250MHz)	-30 to +85
WLAN2.4	**DFCH32G48HDHAA**	2484	26	3.0	45 (Fo-270MHz)	-30 to +85
DCS1800	**DFCH41G74HDJAA**	1747.5	75	3.6	10 (Fo±57.5MHz)	-30 to +85
DCS1800	**DFCH41G84HDJAA**	1842.5	75	3.6	10 (Fo±57.5MHz)	-30 to +85
PCS1.9	**DFCH41G88HDJAA**	1880	60	4.5	12 (Fo±50MHz)	-30 to +85
PCS1.9	**DFCH41G96HDJAA**	1960	60	4.5	12 (Fo±50MHz)	-30 to +85
MMDS	**DFCH42G59HDHAB**	2593	186	1.8	50 (Fo-400MHz)	-35 to +85