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Dielectric Filters (GIGAFIL®)

muRata Innovator in Electronics

Murata
Manufacturing Co., Ltd.

Cat.No.O81E-2

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for EU RoHS Compliant

・All the products on this catalog are complied with EU RoHS.
・EU RoHS is "the European Directive 2002/95/EC on the Restriction of the Use of Certain Hazardous Substances in Electrical and Electronic Equipment".
・For more details, please refer to our website 'Murata's Approach for EU RoHS' (http://www.murata.com/info/rohs.html).

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GIGAFIL® in this catalog is the trademark of Murata Manufacturing Co., Ltd.

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● Part Numbering

Antenna/Duplexer Dielectric Filters (GIGAFIL®)
for RF/Local Dielectric Band Pass Filters (GIGAFIL®)

(Part Number)

DF	YK6	1G95	LBNBB-	TT1
❶	❷	❸	❹	❺

❶Product ID

Product ID	
DF	Microwave Filters (GIGAFIL®)

❷Series

Two capital letters and a number express the series name.

❸Nominal Center Frequency

Expressed by four-digit alphanumerics. If the unit is "MHz", it is expressed by three figures plus "**M**". If the unit is "GHz", a decimal point is expressed by capital letter "**G**".

❹Individual Specification Code

Expressed by five letters plus a hyphen.

❺Packaging

Code	Packaging
T**	Tray
R**	Reel

Packaging varies on each product type. Please contact us for details.

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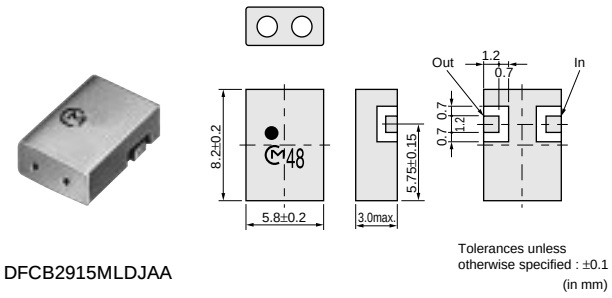
Dielectric Filters (GIGAFIL®)

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±5ppm/(degree C) max).
4. Excellent mechanical stability without vibratile structure.
5. SMD and reflow soldering is available.
6. Mountable by automatic placing machine.

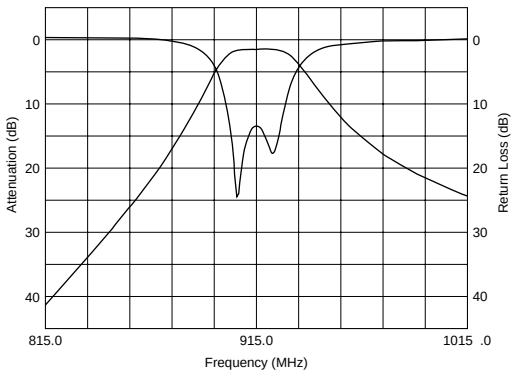


DFCB2915MLDJAA

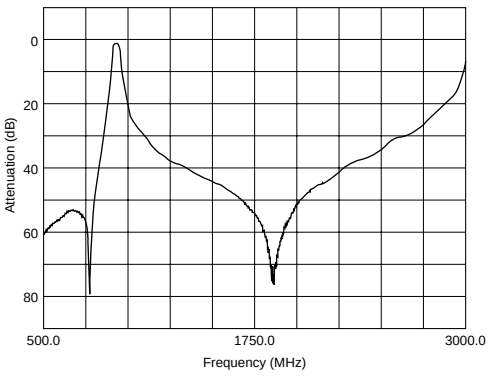
Tolerances unless otherwise specified : ±0.1 (in mm)

■ Characteristics

Pass Band: DFCB2915MLDJAA



Spurious: DFCB2915MLDJAA



Application	Part Number	fo (MHz)	Bandwidth (MHz)	IL at BW (dB max.)	Attenuation (dB min.)	Operation Temperature Range (°C)
AMPS	**DFCB2836MLDJAA**	836.5	25	2.6	6.5 (869 to 894MHz)	-35 to +85
AMPS	**DFCB2881MLDJAA**	881.5	25	2.6	9 (824 to 849MHz)	-35 to +85
GSM	**DFCB2902MLDJAA**	902.5	25	2.6	27 (Fo-77.5MHz)	-35 to +85
WLAN915	**DFCB2915MLDJAA**	915	26	2.5	27 (837.5MHz)	-35 to +85
GSM	**DFCB2947MLDJAA**	947.5	25	2.6	27 (Fo-77.5MHz)	-35 to +85
LMR	**DFCB3815MLDJAA**	815.5	19	2.5	12 (Fo±35.5MHz)	-35 to +85
AMPS	**DFCB3836MLDJAA**	836.5	25	3.0	12 (869 to 894MHz)	-35 to +85
LMR	**DFCB3860MLDJAA**	860.5	19	2.5	13 (Fo+35.5MHz)	-35 to +85
AMPS	**DFCB3881MLDJAA**	881.5	25	3.0	15 (824 to 849MHz)	-35 to +85
GSM	**DFCB3902MLDJAA**	902.5	25	3.0	45 (Fo-77.5MHz)	-35 to +85
WLAN915	**DFCB3915MLDJAA**	915	26	3.0	15 (Fo-32.5MHz)	-35 to +85
GSM	**DFCB3947MLDJAA**	947.5	25	3.0	45 (Fo-77.5MHz)	-35 to +85

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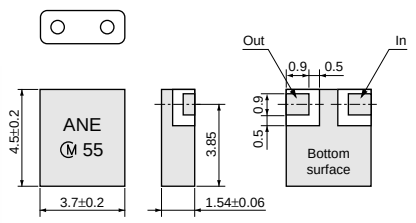
1

DFCB/DFCL Series 1.5-5GHz

■ 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±5ppm/(degree C) max).
4. Excellent mechanical stability without vibratile structure.
5. SMD and reflow soldering is available.
6. Mountable by automatic placing machine.

DFCL22G33LANAC



Tolerances unless otherwise specified: ±0.1
(in mm)

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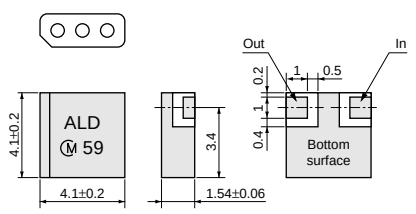
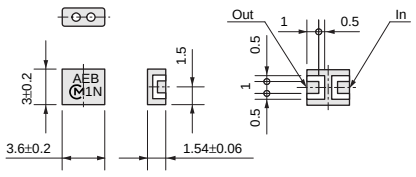


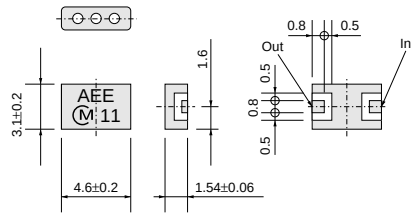
Tolerances unless otherwise specified: ±0.1
(in mm)

DFCB25G25LAHAA



Tolerances unless otherwise specified : ±0.1
(in mm)

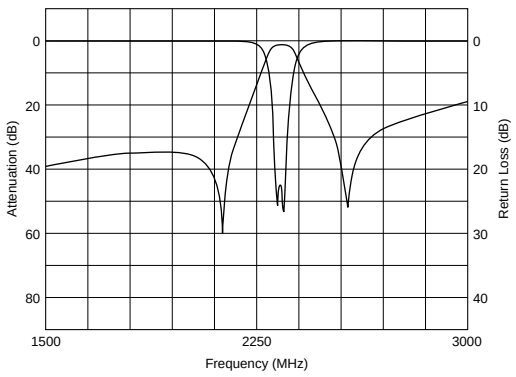
DFCB35G25LAHAA



Tolerances unless otherwise specified : ±0.1
(in mm)

■ Characteristics

Pass Band: DFCL22G33LANAC



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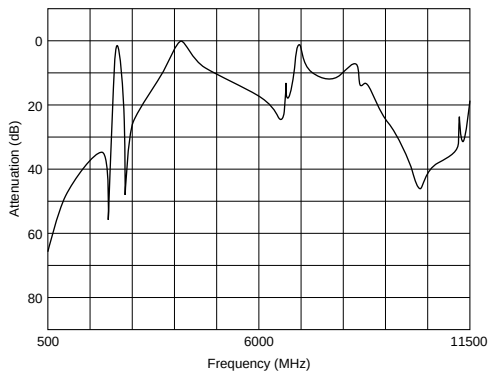

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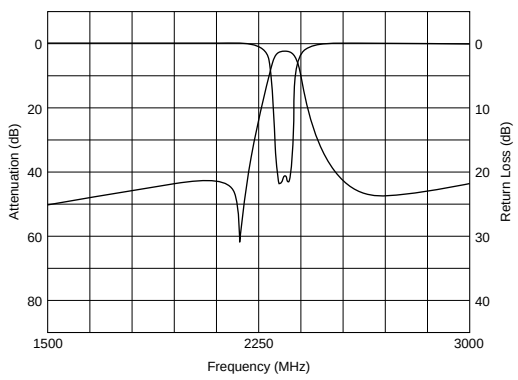
■ Characteristics

Pass Band: DFCL32G33LANAA



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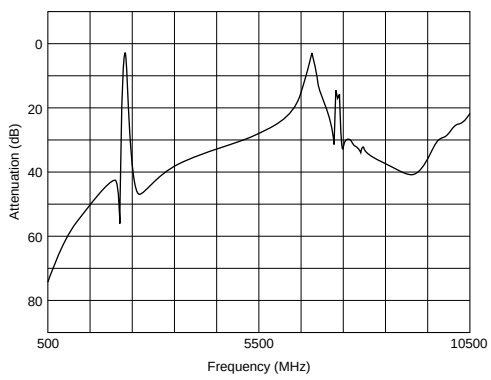
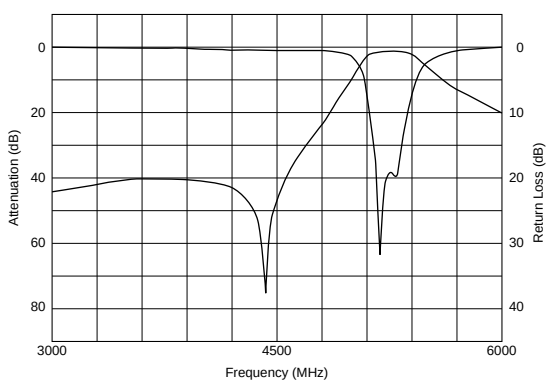


Pass Band: DFCB25G25LAHAA



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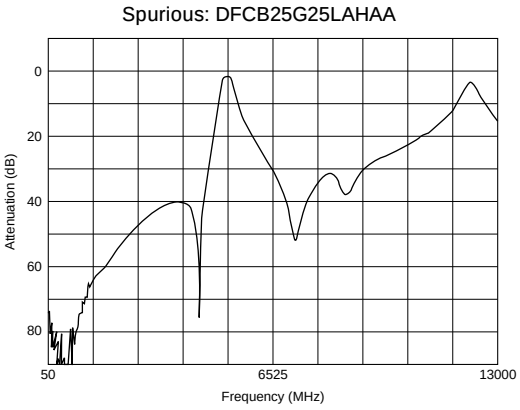

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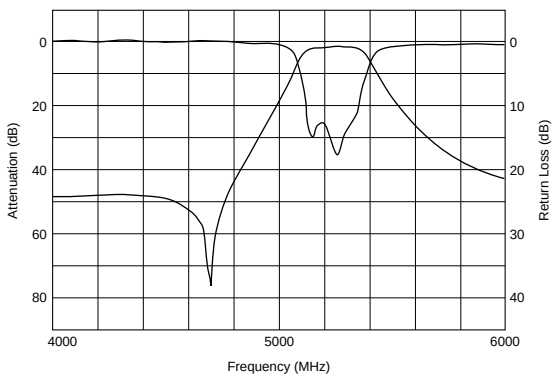

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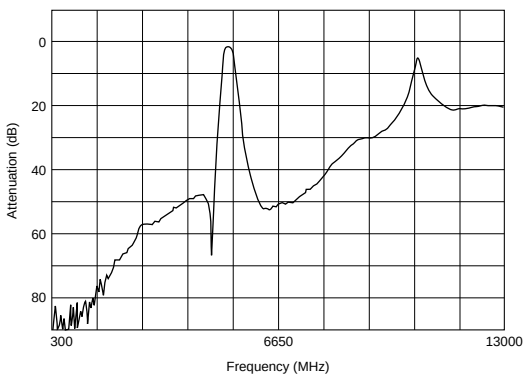

Application	Part Number	fo (MHz)	Bandwidth (MHz)	IL at BW (dB max.)	Attenuation (dB min.)	Operation Temperature Range (°C)
DAB	**DFCB21G47LBJAA**	1472	40	2.0	38 (1122MHz)	-40 to +85
GPS	**DFCB21G57LBJAB**	1575.42	3	1.3	37 (1850 to 1910MHz)	-35 to +85
GPS	**DFCL21G57LBJAE**	1575.42	2.046	3.9	30 (1475.42MHz)	-35 to +85
GPS	**DFCB21G57LCJAA**	1575.42	2	3.5	15 (Fo±50MHz)	-40 to +85
GPS	**DFCB21G57LDJAB**	1575.42	2	3.15	18 (Fo±50MHz)	-35 to +85
DCS1800	**DFCB21G84LDJAA**	1842.5	75	2.0	20 (Fo-160MHz)	-35 to +85
DECT	**DFCB21G89LBJAA**	1890	20	2.0	40 (1660 to 1680MHz)	-35 to +85
DECT	**DFCB21G89LDJAA**	1890	20	2.0	45 (1660 to 1680MHz)	-40 to +85
CDMA1.9	**DFCB21G92LDJAA**	1920	20	1.9	16 (1800 to 1820MHz)	-40 to +85
PCS1.9	**DFCB21G96LDJAA**	1960	60	1.5	17 (2360MHz)	-35 to +85
Sirius Radio	**DFCB22G32LBJAA**	2326	14	1.8	8.5 (2227MHz)	-35 to +85
XM Satellite	**DFCL22G33LANAC**	2339	14	2.0	22 (0.3 to 2188MHz)	-40 to +125

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Application	Part Number	fo (MHz)	Bandwidth (MHz)	IL at BW (dB max.)	Attenuation (dB min.)	Operation Temperature Range (°C)
Wibro	**DFCB22G34LBJAA**	2345	80	2.5	20 (350 to 1200MHz)	-35 to +85
WLAN2.4	**DFCB22G44LBJAA**	2442	84	2.0	16 (Fo-250MHz)	-40 to +85
WLAN2.4	**DFCB22G45LBJAA**	2450	100	2.0	15 (Fo-250MHz)	-40 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
DAB	**DFCB31G47LBJAA**	1472	40	3.0	45 (1100MHz)	-35 to +85
DCS1800	**DFCB31G74LBJAA**	1747.5	75	3.5	45 (1464 to 1539MHz)	-35 to +85
DCS1800	**DFCB31G84LBJAA**	1842.5	75	3.5	45 (1559 to 1634MHz)	-35 to +85
DCS1800	**DFCB31G84LBJAB**	1842.5	75	2.75	45 (0.3 to 1500MHz)	-35 to +85
PCS1.9	**DFCB31G88LBJAA**	1880	60	3.7	43 (1640 to 1664MHz)	-35 to +85
PCS1.9	**DFCB31G88LBJAB**	1880	60	4.0	41 (2043 to 2103MHz)	-35 to +85
W-CDMA	**DFCB31G95LBJAA**	1950	60	3.5	35 (2110 to 2170MHz)	-35 to +85
PCS1.9	**DFCB31G96LBJAA**	1960	60	3.7	5 (1910MHz)	-35 to +85
PCS1.9	**DFCB31G96LBJAB**	1960	60	3.0	10 (1498 to 1860MHz)	-35 to +85
W-CDMA	**DFCB32G14LBJAA**	2140	60	3.7	30 (1920 to 1980MHz)	-35 to +85
Sirius Radio	**DFCB32G32LBJAA**	2326	14	3.0	24 (2227MHz)	-35 to +85
XM Satellite	**DFCL32G33LANAA**	2339	14	3.0	39 (0.3 to 2188MHz)	-40 to +125
WLAN2.4	**DFCB32G44LBJAA**	2442	84	3.2	30 (Fo-250MHz)	-40 to +85
WLAN2.4	**DFCB32G45LBJAA**	2450	100	3.2	30 (Fo-250MHz)	-40 to +85
MMDS/WiMax	**DFCB32G59LBHAA**	2595	190	2.0	40 (1930 to 2170MHz)	-35 to +85
MMDS/WiMax	**DFCB32G59LBHAB**	2595	190	1.5	35 (1930 to 2170MHz)	-35 to +85
FWA	**DFCL33G40LCHAA**	3400	200	2.0	38 (3050MHz)	-35 to +85
FWA	**DFCL33G40LCHAB**	3400	200	1.3	30 (3050MHz)	-35 to +85
WiMAX	**DFCL33G50LCHAA**	3500	200	2.0	38 (3150MHz)	-35 to +85
WiMAX	**DFCL33G50LCHAB**	3500	200	1.3	30 (3150MHz)	-35 to +85
WiMAX	**DFCL33G55LCHAB**	3550	300	3.0	40 (450MHz)	-35 to +85
FWA	**DFCL33G60LCHAA**	3600	200	2.0	38 (3250MHz)	-35 to +85
FWA	**DFCL33G60LCHAB**	3600	200	1.3	30 (3250MHz)	-35 to +85
FWA	**DFCL33G70LCHAA**	3700	200	2.0	38 (3350MHz)	-35 to +85
FWA	**DFCL33G70LCHAB**	3700	200	1.3	30 (3350MHz)	-35 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

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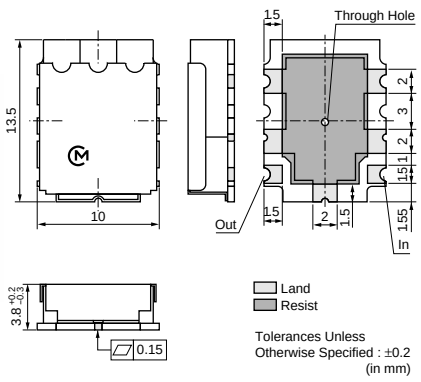
DFCH Series 800/900MHz

■ Features

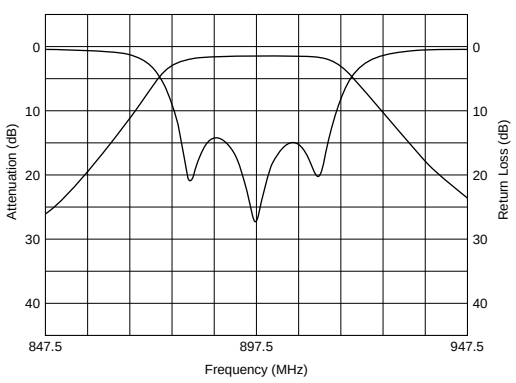
1. Low insertion loss for using high Q-value dielectric resonators.
2. Small and light for using high dielectric constant ceramics.
3. Excellent temperature stability for temperature compensated dielectric constant (0±5ppm/(degree C) max).
4. Excellent mechanical stability without vibratile structure.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

DFCH3897MHDJAA

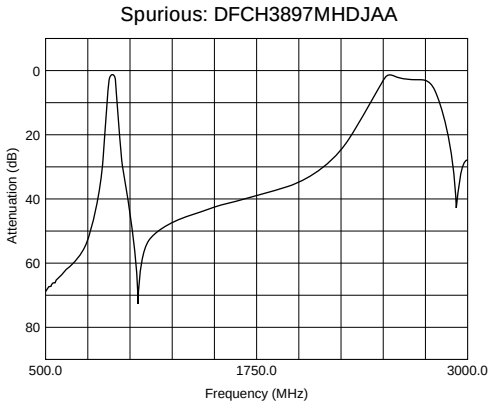


■ Characteristics

Pass Band: DFCH3897MHDJAA



Spurious: DFCH3897MHDJAA



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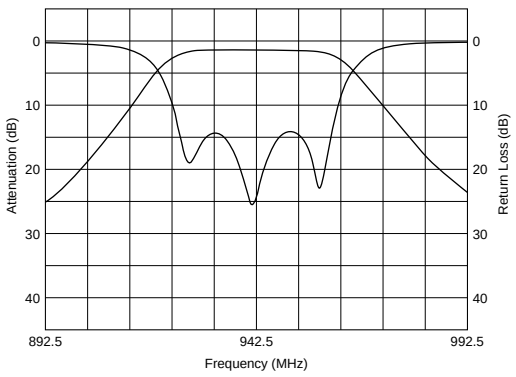

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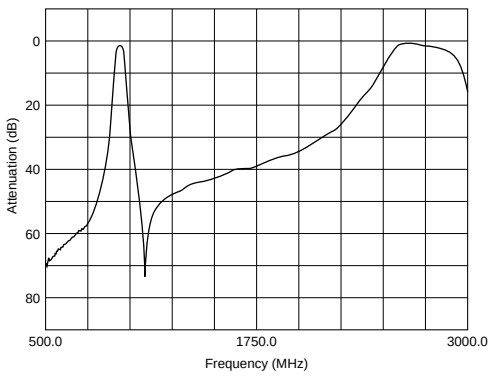

Application	Part Number	fo (MHz)	Bandwidth (MHz)	IL at BW (dB max.)	Attenuation (dB min.)	Operation Temperature Range (°C)
LMR	**DFCH3815MHDJAA**	815	20	2.8	36 (Fo±80MHz)	-35 to +85
AMPS	**DFCH3836MHDJAA**	836.5	25	2.6	12 (Fo±32.5MHz)	-35 to +85
LMR	**DFCH3860MHDJAA**	860	20	2.8	36 (Fo±80MHz)	-35 to +85
AMPS	**DFCH3881MHDJAA**	881.5	25	2.6	12 (Fo±32.5MHz)	-35 to +85
EGSM	**DFCH3897MHDJAA**	897.5	35	3.0	6 (Fo±27.5MHz)	-35 to +85
GSM	**DFCH3902MHDJAA**	902.5	25	2.6	12 (Fo±32.5MHz)	-35 to +85
EGSM	**DFCH3942MHDJAA**	942.5	35	3.0	6 (Fo±27.5MHz)	-35 to +85
GSM	**DFCH3947MHDJAA**	947.5	25	2.6	12 (Fo±32.5MHz)	-35 to +85
EGSM	**DFCH4897MHDJAA**	897.5	35	4.6	13 (Fo±27.5MHz)	-35 to +85
EGSM	**DFCH4942MHDJAA**	942.5	35	4.6	13 (Fo±27.5MHz)	-35 to +85

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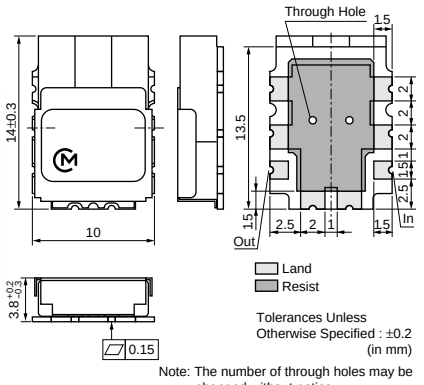
1

DFCH Series 1.5-2.5GHz

■ Features

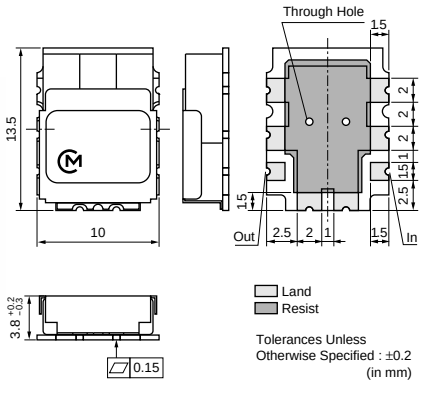
1. Low insertion loss for using high Q-value dielectric resonators.
2. Small and light for using high dielectric constant ceramics.
3. Excellent temperature stability for temperature compensated dielectric constant (0±5ppm/(degree C) max).
4. Excellent mechanical stability without vibratile structure.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

DFCH31G95HDHAA



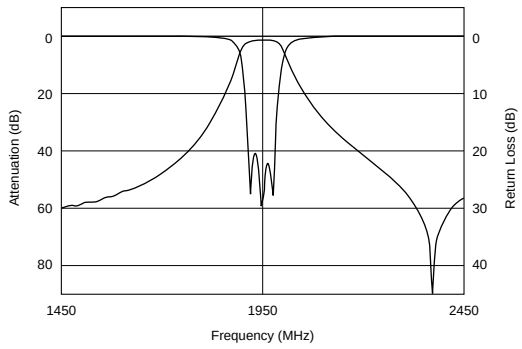
Note: The number of through holes may be changed without notice.

DFCH32G14HDHAA

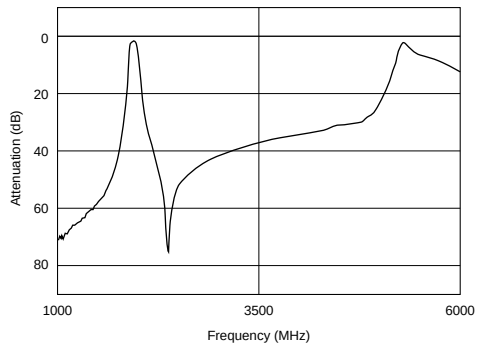


■ Characteristics

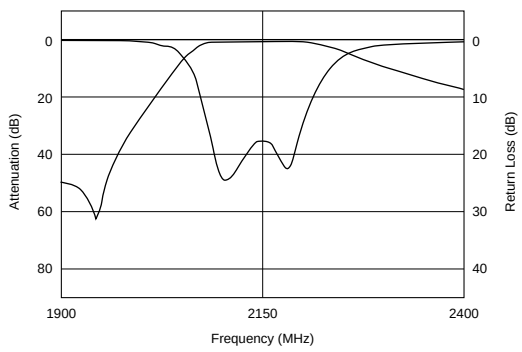
Pass Band: DFCH31G95HDHAA



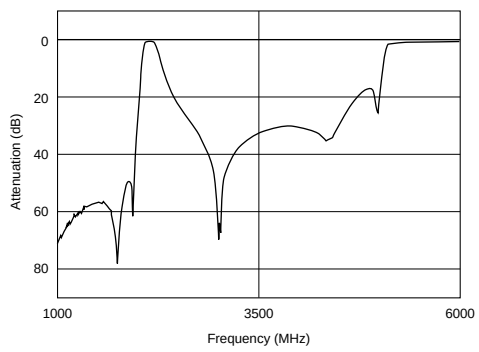
Spurious: DFCH31G95HDHAA



Pass Band: DFCH32G14HDHAA



Spurious: DFCH32G14HDHAA



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Application	Part Number	fo (MHz)	Bandwidth (MHz)	IL at BW (dB max.)	Attenuation (dB min.)	Operation Temperature Range (°C)
GPS	**DFCH21G57HDHAA**	1575.5	2	0.9	16 (Fo-140MHz)	-35 to +85
TD-SCDMA	**DFCH22G01HDJAA**	2017.5	15	1.8	22 (1899 to 1915MHz)	-40 to +85
WLAN2.4	**DFCH22G44HDHAA**	2442	84	1.2	15 (Fo±250MHz)	-35 to +85
WLAN2.4	**DFCH22G45HDHAA**	2450	100	1.0	16 (Fo-250MHz)	-35 to +85
MSAT	**DFCH31G54HDJAA**	1542	34	3.0	30 (1626.5 to 1660.5MHz)	-35 to +85
MSAT	**DFCH31G64HDJAA**	1643.5	34	3.0	30 (1525 to 1559MHz)	-35 to +85
DCS1800	**DFCH31G74HDJAA**	1747.5	75	2.0	8 (Fo±80MHz)	-35 to +85
DCS1800	**DFCH31G84HDJAA**	1842.5	75	2.0	8 (Fo±80MHz)	-35 to +85
PCS1.9	**DFCH31G88HDJAA**	1880	60	2.2	15 (Fo±100MHz)	-35 to +85
W-CDMA	**DFCH31G95HDHAA**	1950	60	1.8	45 (1550MHz)	-35 to +85
PCS1.9	**DFCH31G96HDJAA**	1960	60	2.2	15 (Fo±100MHz)	-35 to +85
TD-SCDMA	**DFCH32G01HDNAA**	2017.5	15	3.0	38 (1920MHz)	-35 to +85
W-CDMA	**DFCH32G14HDHAA**	2140	60	1.3	52 (1325 to 1385MHz)	-35 to +85
WLAN2.4	**DFCH32G44HDHAA**	2442	84	2.4	36 (Fo-250MHz)	-35 to +85
WLAN2.4	**DFCH32G45HDHAA**	2450	100	2.3	36 (Fo-250MHz)	-35 to +85
MMDS/WiMax	**DFCH32G59HDHBA**	2593	186	1.0	30 (1930 to 1990MHz)	-35 to +85
DCS1800	**DFCH41G74HDJAA**	1747.5	75	3.6	10 (Fo±57.5MHz)	-35 to +85
DCS1800	**DFCH41G84HDJAA**	1842.5	75	3.6	10 (Fo±57.5MHz)	-35 to +85
PCS1.9	**DFCH41G88HDJAA**	1880	60	4.5	12 (Fo±50MHz)	-35 to +85
PCS1.9	**DFCH41G96HDJAA**	1960	60	4.5	12 (Fo±50MHz)	-35 to +85

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Dielectric Filters (GIGAFIL®)

Duplexers

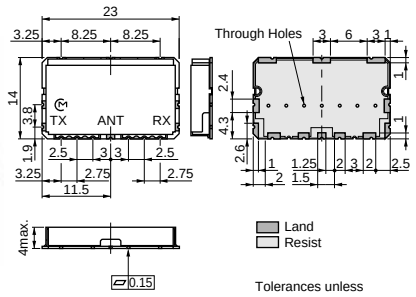
2

AMPS/CDMA800: DFYH Series

■ 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±5ppm/(degree C) max).
4. Excellent mechanical stability without vibratile structure.
5. SMD and reflow soldering is available.
6. Mountable by automatic placing machine.

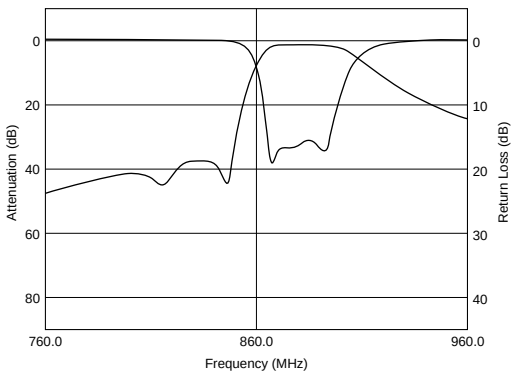
DFYH7836MHDJAC



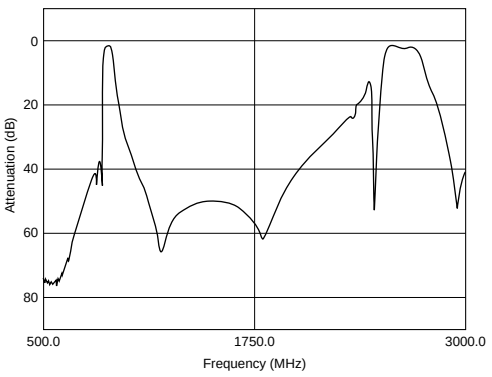
Tolerances unless otherwise specified : ±0.2 (in mm)

■ Characteristics

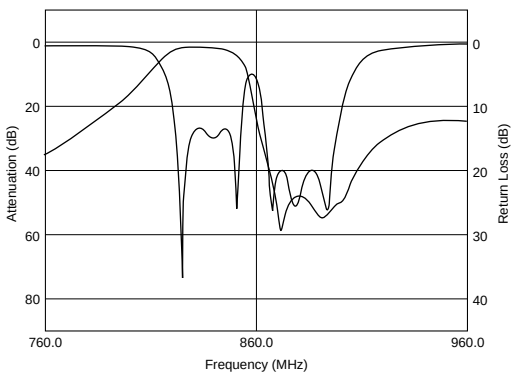
Pass Band (Tx)



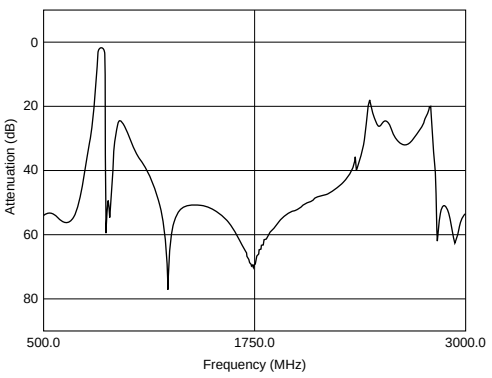
Spurious (Tx)



Pass Band (Rx)



Spurious (Rx)



Part Number	fo (Tx) (MHz)	Bandwidth (Tx) (MHz)	IL at BW (dB max.)	Attenuation (dB min.)	fo (Rx) (MHz)	Bandwidth (Rx) (MHz)	IL at BW (dB max.)	Attenuation (dB min.)	Operation Temperature Range (°C)
DFYH7836MHDJAC	881.5	25	3.0	35 (824 to 849MHz)	836.5	25	4.0	45 (869 to 894MHz)	-30 to +85

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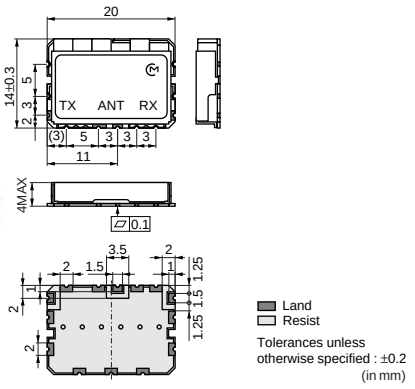
EGSM: DFYH Series

■ 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±5ppm/(degree C) max).
4. Excellent mechanical stability without vibratile structure.
5. SMD and reflow soldering is available.
6. Mountable by automatic placing machine.

DFYH5897MHDJAA



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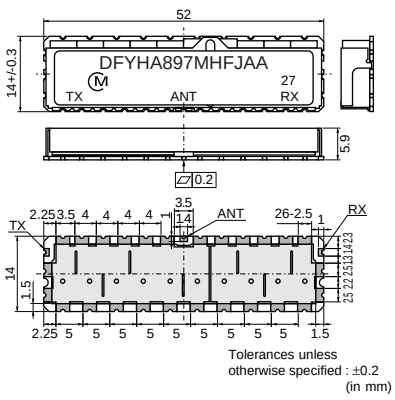
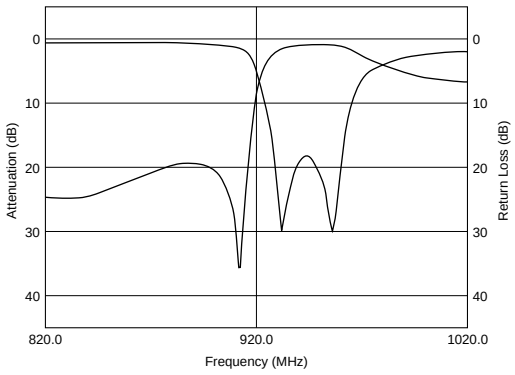
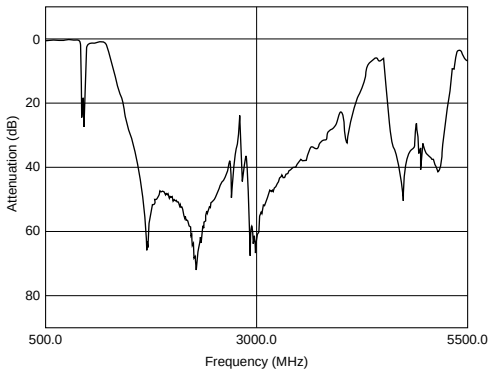


■ Characteristics

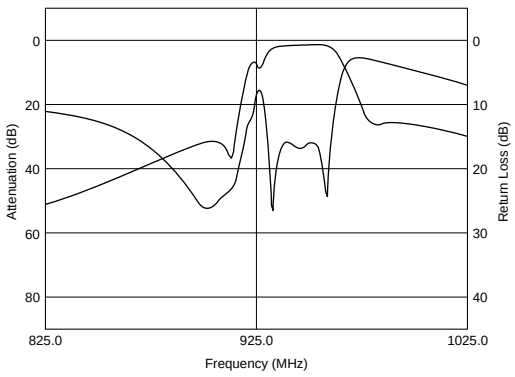
Pass Band (Tx): DFYH5897MHDJAA



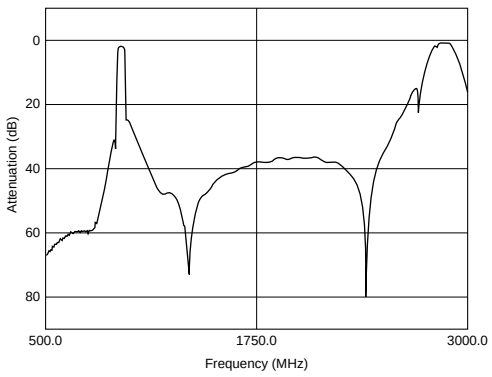
Spurious (Tx): DFYH5897MHDJAA



Pass Band (Rx): DFYH5897MHDJAA



Spurious (Rx): DFYH5897MHDJAA



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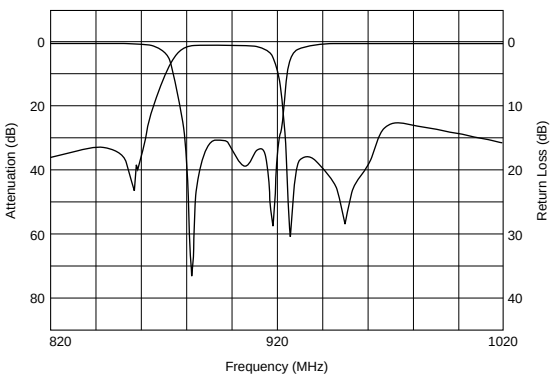
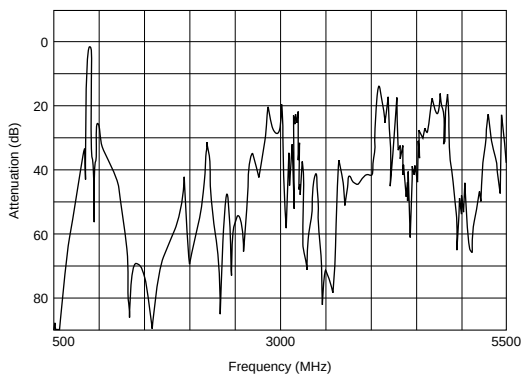
Continued from the preceding page.

■ Characteristics

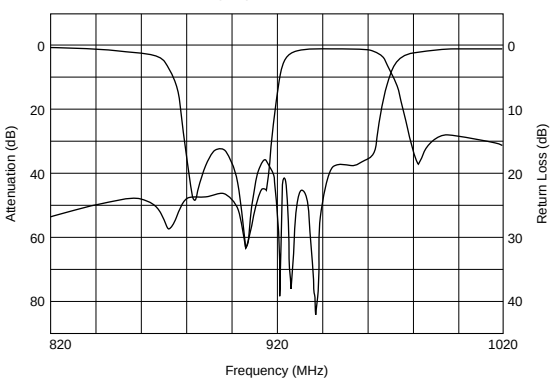
Pass Band (Tx): DFYHA897MHFJAA



Spurious (Tx): DFYHA897MHFJAA



Pass Band (Rx): DFYHA897MHFJAA



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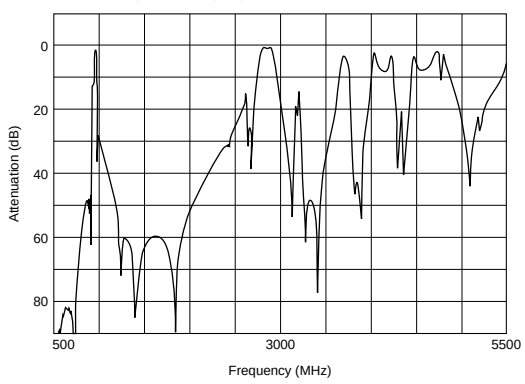

Part Number	fo (Tx) (MHz)	Bandwidth (Tx) (MHz)	IL at BW (dB max.)	Attenuation (dB min.)	fo (Rx) (MHz)	Bandwidth (Rx) (MHz)	IL at BW (dB max.)	Attenuation (dB min.)	Operation Temperature Range (°C)
DFYH5897MHDJAA	897.5	35	2.0	15 (935 to 960MHz)	942.5	35	4.3	20 (905 to 915MHz)	-30 to +85
DFYHA897MHFJAA	897.5	35	3.7	30 (925 to 960MHz)	942.5	35	4.4	40 (880 to 915MHz)	-35 to +85

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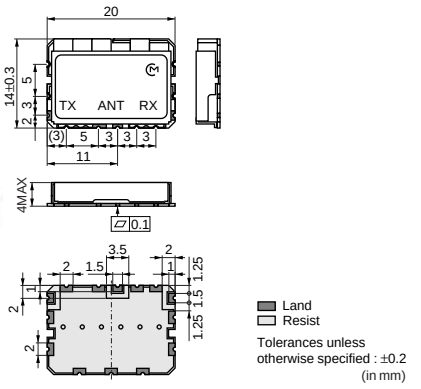
DCS1800: DFYH Series

■ 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±5ppm/(degree C) max).
4. Excellent mechanical stability without vibratile structure.
5. SMD and reflow soldering is available.
6. Mountable by automatic placing machine.

DFYH61G74HDHAA



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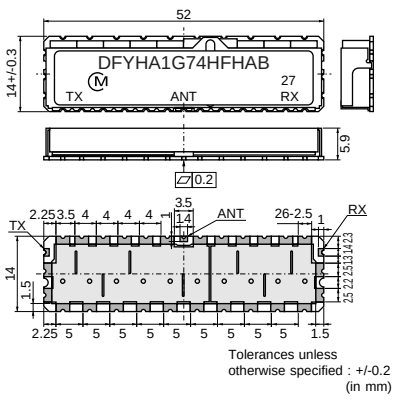
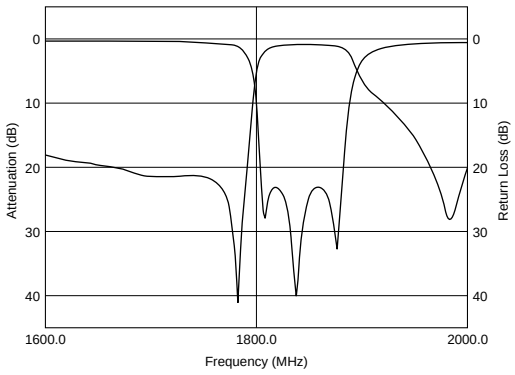
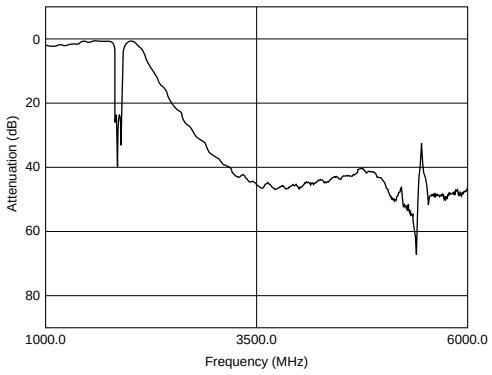


■ Characteristics

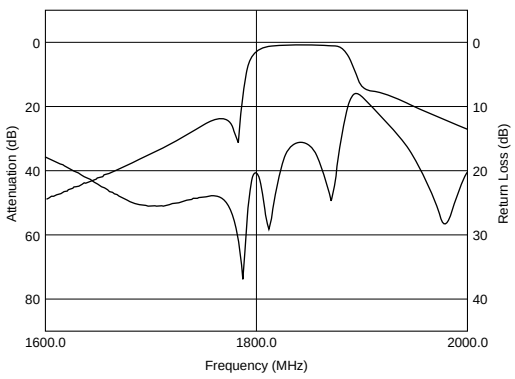
Pass Band (Tx): DFYH61G74HDHAA



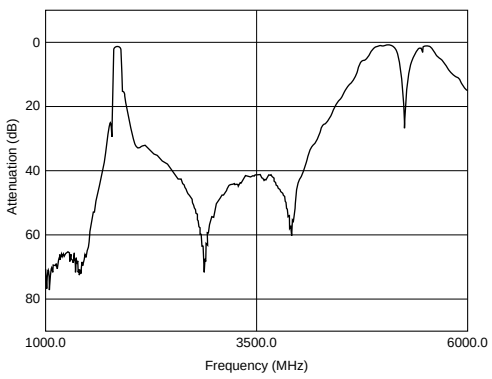
Spurious (Tx): DFYH61G74HDHAA



Pass Band (Rx): DFYH61G74HDHAA



Spurious (Rx): DFYH61G74HDHAA



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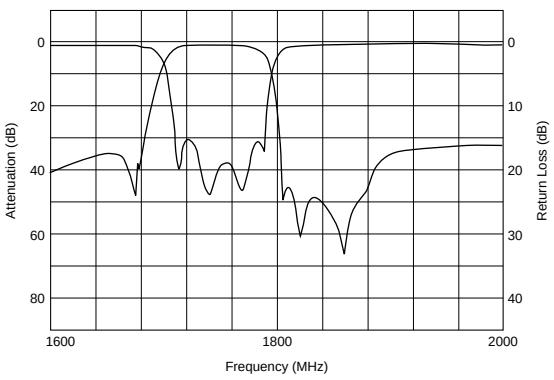
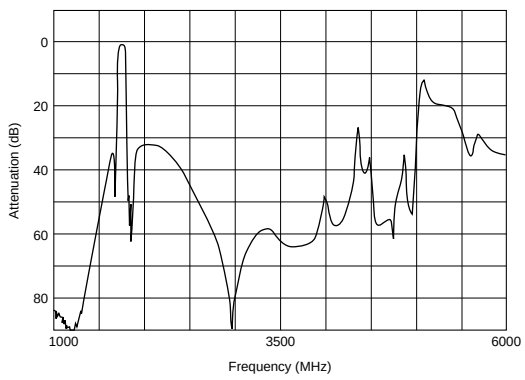
Continued from the preceding page.

■ Characteristics

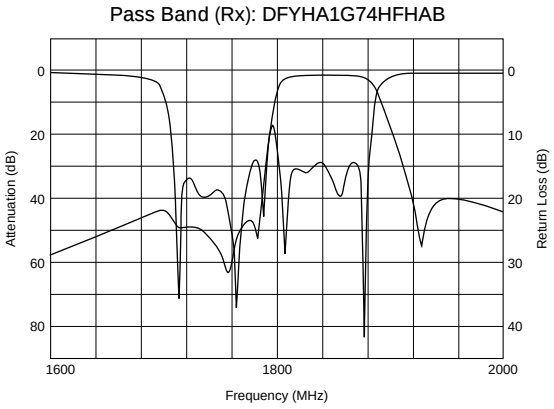
Pass Band (Tx): DFYHA1G74HFHAB



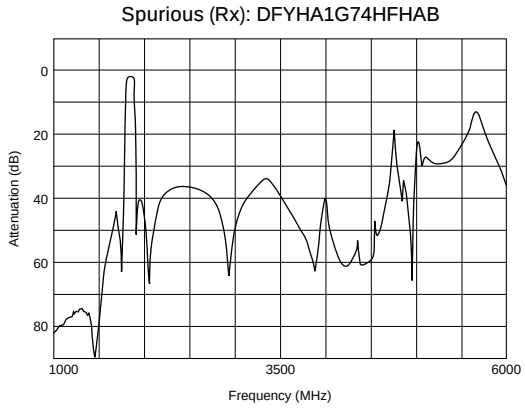
Spurious (Tx): DFYHA1G74HFHAB



Pass Band (Rx): DFYHA1G74HFHAB



Spurious (Rx): DFYHA1G74HFHAB



Part Number	fo (Tx) (MHz)	Bandwidth (Tx) (MHz)	IL at BW (dB max.)	Attenuation (dB min.)	fo (Rx) (MHz)	Bandwidth (Rx) (MHz)	IL at BW (dB max.)	Attenuation (dB min.)	Operation Temperature Range (°C)
DFYH61G74HDHAA	1747.5	75	2.3	20 (1805 to 1880MHz)	1842.5	75	2.7	20 (1710 to 1785MHz)	-30 to +85
DFYH61G74HDHAB	1747.5	75	2.0	15 (1805 to 1880MHz)	1842.5	75	3.0	20 (1710 to 1785MHz)	-30 to +85
DFYHA1G74HFHAB	1747.5	75	3.8	42 (1805 to 1880MHz)	1842.5	75	4.3	42 (1710 to 1785MHz)	-35 to +85

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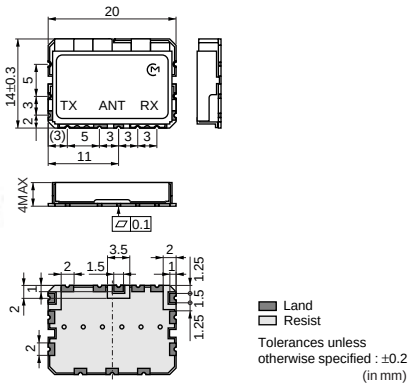
PCS1.9: DFYH Series

■ Features

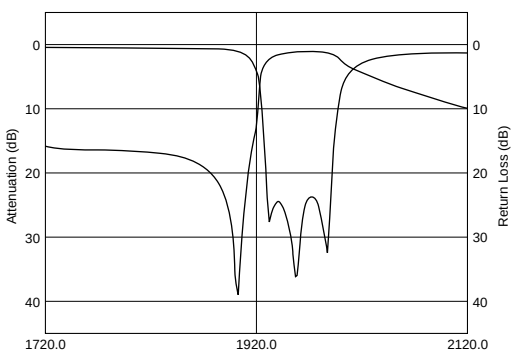
1. Low insertion loss for using high Q-value dielectric resonators.
2. Small and light for using high dielectric constant ceramics.
3. Excellent temperature stability for temperature compensated dielectric constant (0±5ppm/(degree C) max).
4. Excellent mechanical stability without vibratile structure.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

DFYH61G88HDHAA

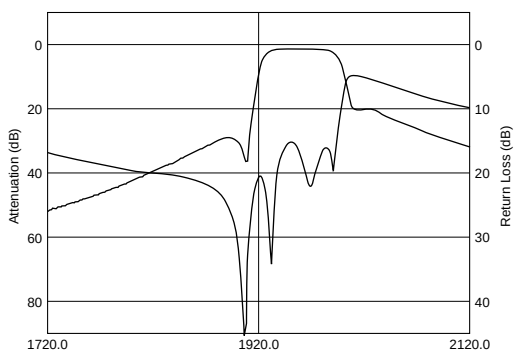


■ Characteristics

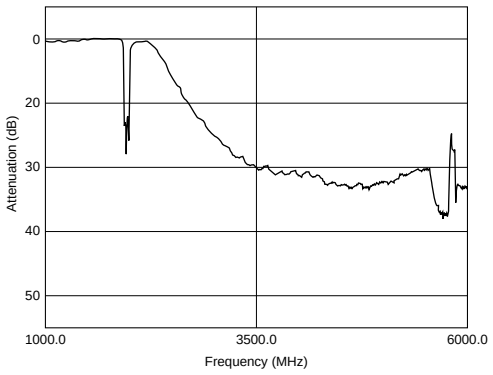
Pass Band (Tx)



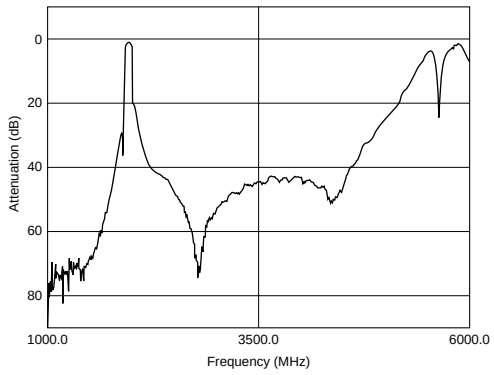
Spurious (Tx)



Pass Band (Rx)



Spurious (Rx)



Part Number	fo (Tx) (MHz)	Bandwidth (Tx) (MHz)	IL at BW (dB max.)	Attenuation (dB min.)	fo (Rx) (MHz)	Bandwidth (Rx) (MHz)	IL at BW (dB max.)	Attenuation (dB min.)	Operation Temperature Range (°C)
DFYH61G88HDHAA	1880	60	2.0	17 (1930 to 1990MHz)	1960	60	3.0	20 (1850 to 1910MHz)	-30 to +85
DFYH61G88HDHAB	1880	60	2.3	20 (1930 to 1990MHz)	1960	60	3.2	25 (1850 to 1910MHz)	-30 to +85

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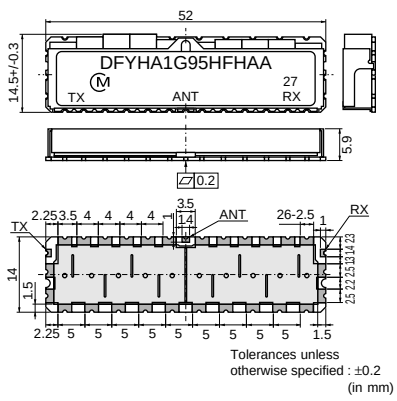
W-CDMA: DFYH Series

■ 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±5ppm/(degree C) max).
4. Excellent mechanical stability without vibratile structure.
5. SMD and reflow soldering is available.
6. Mountable by automatic placing machine.

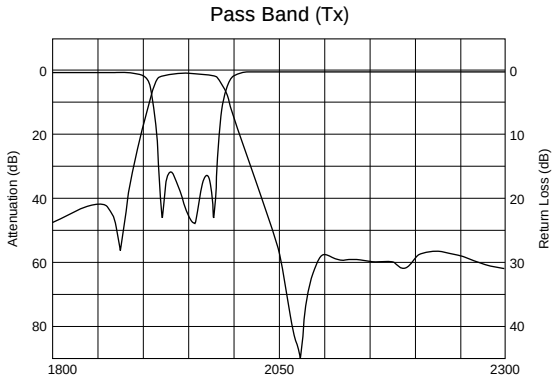
DFYHA1G95HFHAA



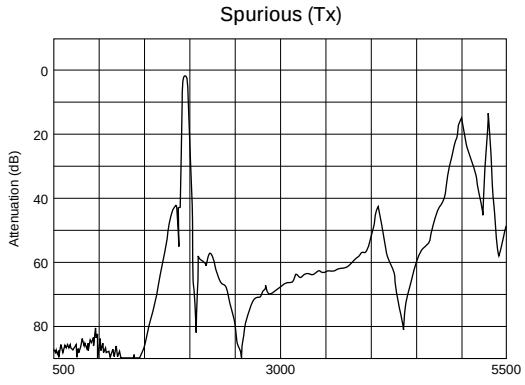
Tolerances unless otherwise specified : ±0.2 (in mm)

■ Characteristics

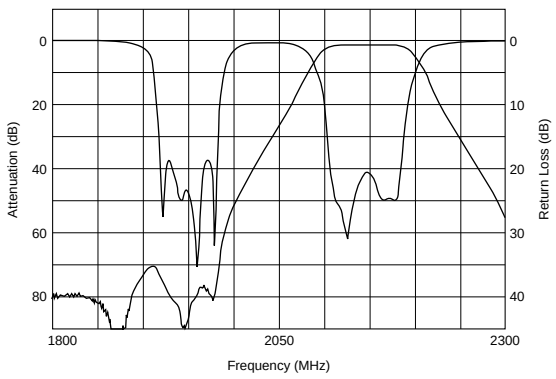
Pass Band (Tx)



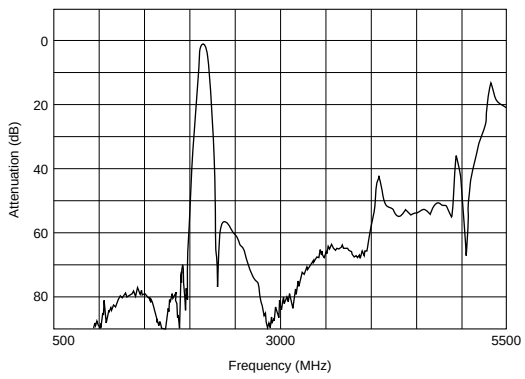
Spurious (Tx)



Pass Band (Rx)



Spurious (Rx)



Part Number	fo (Tx) (MHz)	Bandwidth (Tx) (MHz)	IL at BW (dB max.)	Attenuation (dB min.)	fo (Rx) (MHz)	Bandwidth (Rx) (MHz)	IL at BW (dB max.)	Attenuation (dB min.)	Operation Temperature Range (°C)
DFYHA1G95HFHAA	1950	60	2.5	55 (2110 to 2170MHz)	2140	60	2.0	70 (1920 to 1980MHz)	-35 to +85

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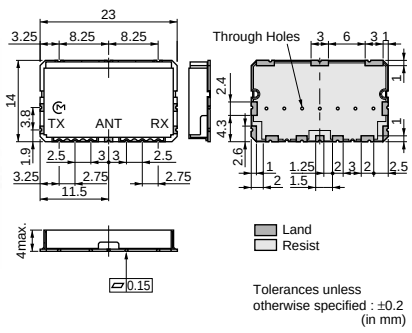
LMR: DFYH Series

■ Features

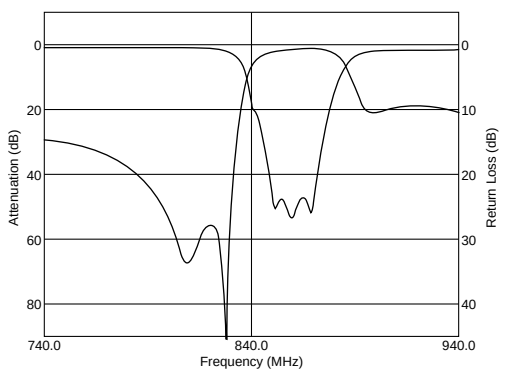
1. Low insertion loss for using high Q-value dielectric resonators.
2. Small and light for using high dielectric constant ceramics.
3. Excellent temperature stability for temperature compensated dielectric constant (0±5ppm/(degree C) max).
4. Excellent mechanical stability without vibratile structure.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

DFYH7815MHDJAA

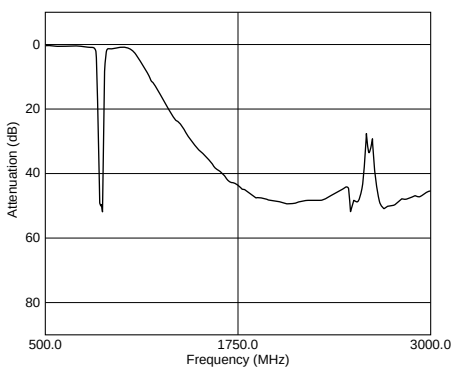


■ Characteristics

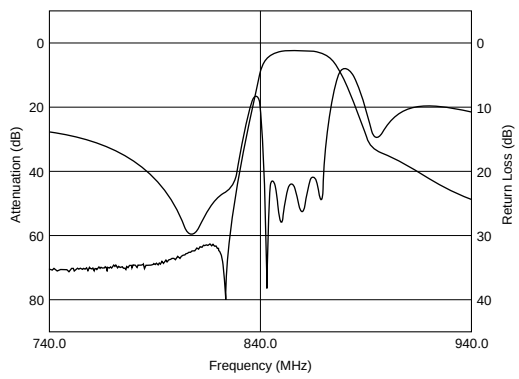
Pass Band (Tx)



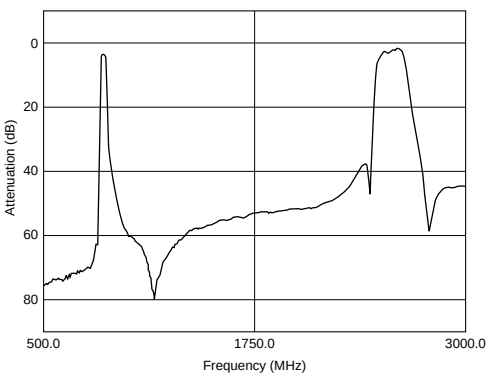
Spurious (Tx)



Pass Band (Rx)



Spurious (Rx)



Part Number	fo (Tx) (MHz)	Bandwidth (Tx) (MHz)	IL at BW (dB max.)	Attenuation (dB min.)	fo (Rx) (MHz)	Bandwidth (Rx) (MHz)	IL at BW (dB max.)	Attenuation (dB min.)	Operation Temperature Range (°C)
DFYH7815MHDJAA	815	20	2.0	40 (850 to 870MHz)	860	20	4.0	57 (805 to 825MHz)	-30 to +85

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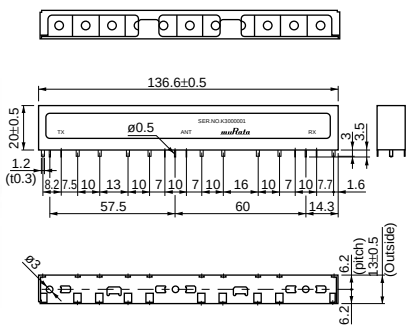
MSAT: DFYF Series

■ 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+5ppm/degree C max.)
4. Excellent mechanical stability without vibratile struture

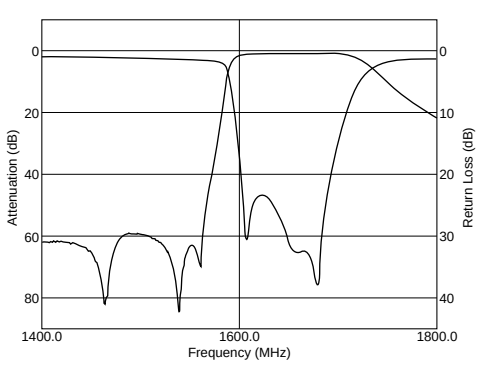
DFYFB1G54THHAA



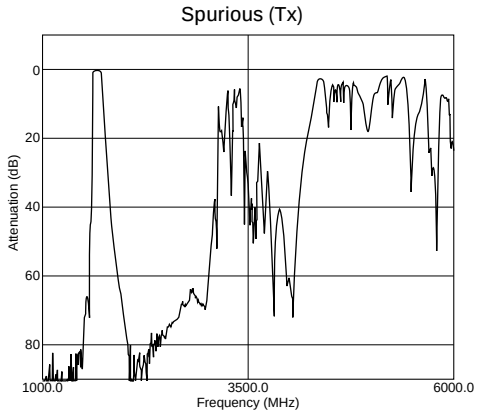
Tolerances unless otherwise specified : ±0.3
(in mm)

■ Characteristics

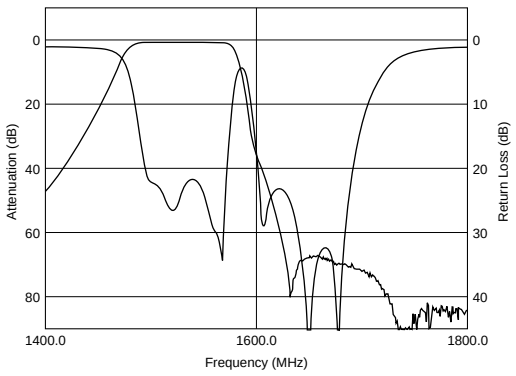
Pass Band (Tx)



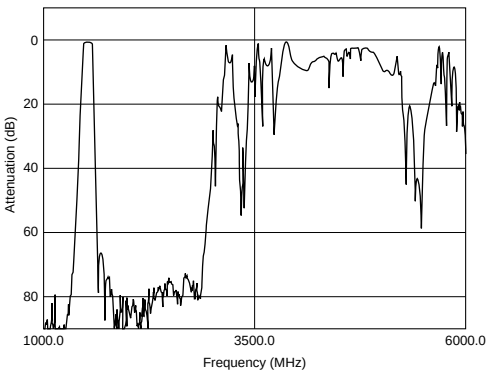
Spurious (Tx)



Pass Band (Rx)



Spurious (Rx)



Part Number	fo (Tx) (MHz)	Bandwidth (Tx) (MHz)	IL at BW (dB max.)	Attenuation (dB min.)	fo (Rx) (MHz)	Bandwidth (Rx) (MHz)	IL at BW (dB max.)	Attenuation (dB min.)	Operation Temperature Range (°C)
DFYFB1G54THHAA	1643.5	34	1.0	60 (1525 to 1559MHz)	1542	34	1.2	65 (1626.5 to 1660.5MHz)	-30 to +85

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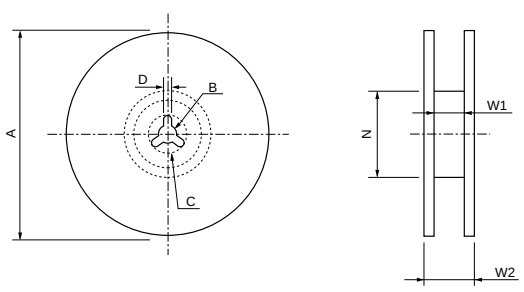
Notice/Packaging/Soldering and Mounting

■ Notice

1. When handling products, be careful not to flaw outer-electrode. If you flaw outer-electrode, the device don't satisfy the specifications.
2. When handling products, be careful not to touch outer-electrode with bare hand. If you touch outer-electrode with bare hand, the soldering performance of device is reduced.
3. Do not apply excessive pressure or shock to product in handling or transportation because the ceramic material which is used inside might be destructed.

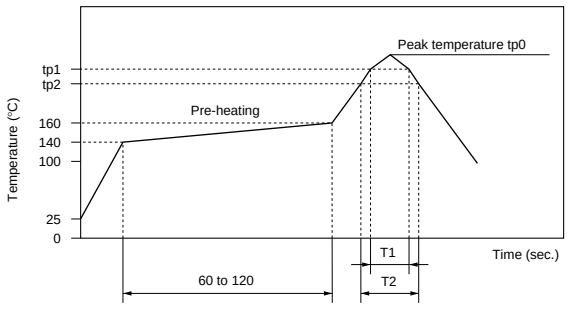
■ Reel



Wide	A±2.0	B±0.5	C±0.8	D±0.5	N min.	W1±1.5	W2 max.
12	ø178	ø13	ø21	2	ø50	13.5	18.5
	ø330	ø13	ø21	2	ø50	13.5	18.5
16	ø178	ø13	ø21	2	ø50	17.5	23
	ø330	ø13	ø21	2	ø50	17.5	23
24	ø330	ø13	ø21	2	ø50	25.5	31
32	ø330	ø13	ø21	2	ø50	33.5	39
44	ø330	ø13	ø21	2	ø50	45.5	51

(in mm)

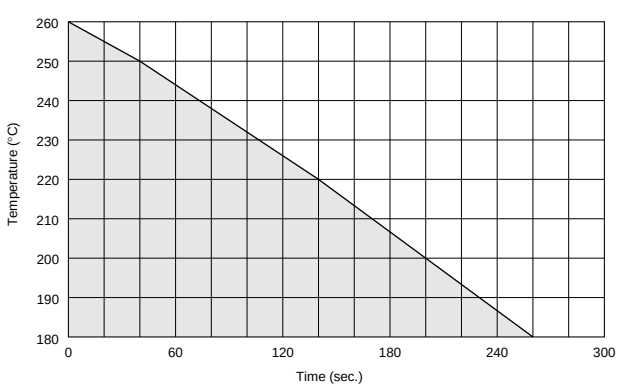
■ Reflow Soldering Conditions



Measuring point of temperature : IN-OUT Terminals of The Device
Reflow Soldering : Both Convection and Infrared Rays, Hot Air and Hot Plate

	tp0 (˚C)	tp1 (˚C)	T1 (sec.)	tp2 (˚C)	T2 (sec.)
Reflow standard condition	245±5	220	30 to 60	—	—
Test condition of reflow heat resistance	260+5/-0	240	20	220	70

■ Allowable Reflow Soldering Temperature and Time



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   ③ Undersea equipment ④ Power plant equipment
   ⑤ Medical equipment ⑥ Transportation equipment (vehicles, trains, ships, etc.)
   ⑦ Traffic signal equipment ⑧ Disaster prevention / crime prevention equipment
   ⑨ Data-processing equipment ⑩ Application of similar complexity and/or reliability requirements to the applications listed above
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Head Office
1-10-1, Higashi Kotari, Nagaokakyo-shi, Kyoto 617-8555, Japan
Phone: 81-75-951-9111

International Division
3-29-12, Shibuya, Shibuya-ku, Tokyo 150-0002, Japan
Phone: 81-3-5469-6123 Fax: 81-3-5469-6155 E-mail: intl@murata.co.jp

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