

TYPE LFC, LFCs, LFCSS, LFCM, LFY, LFYS, LFYSS, LFYM/
LFC, LFCs, LFCSS, LFCM, LFY, LFYS, LFYSS, LFYM型



LFC
4element
4个元件



LFCs
4element
4个元件



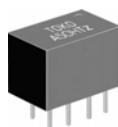
LFCSS
4element
4个元件



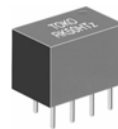
LFCM
4 element, low profile
4个元件，薄型



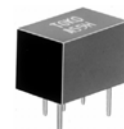
LFY
6element
6个元件



LFYS
6element
6个元件

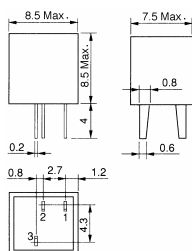


LFYSS
6element
6个元件

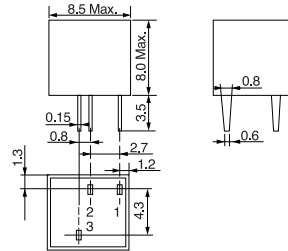


LFYM
6 element, low profile
6个元件，薄型

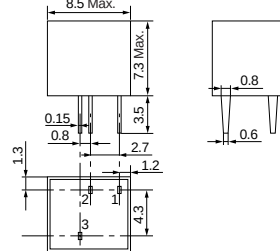
LFC



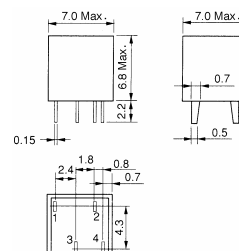
LFCs



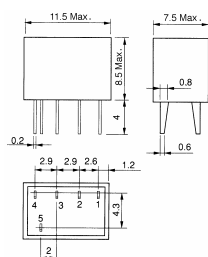
LFCSS



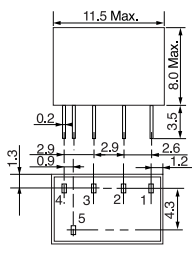
LFCM



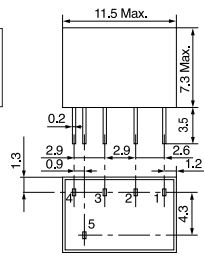
LFY



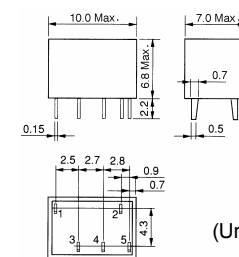
LFYS



LFYSS



LFYM



(Unit: mm)

Description

- 8.0/7.5/7.0/6.3mm high 4/6-elements ceramic ladder filter.
- For communications and wireless data communications equipment.

Features

- Bandwidth characteristics can be set to meet requirements, i.e., from $\pm 3\text{kHz}$ to $\pm 15\text{kHz}$.
- Height, dimensionally, can be selected to meet functional requirements. (8.0, 7.5, 7.0 and 6.3mm)
- Possibility of use in IF stages which require no adjustments.
- RoHS compliant

Applications

- High performance car and portable radio sets.
- Transportable radio communicators.
- Transceivers and related radio equipment.

说明

- 8.0/7.5/7.0/6.3mm高度，4/6个元件的陶瓷梯形滤波器。
- 用于通讯及无线数据通讯设备。

特征

- 可根据需要设置带宽特性，如：从 $\pm 3\text{kHz}$ 到 $\pm 15\text{kHz}$ 。
- 在尺寸上，高度可根据功能需要自由选择（8.0、7.5、7.0和6.3mm）。
- 可在无需调整的IF滤波器中使用。
- 符合RoHS指令。

应用

- 高性能汽车音响和便携式收音机。
- 移动式通信设备。
- 收发器和相关无线电设备。

SELECTION GUIDE FOR STANDARD FILTERS / 标准滤波器选择指南

TYPE/类型 LFC/LFCS/LECSS/LFCM/LFY/LFYS/LFYSS/LFYM						
东光部品号	最小6dB带宽	最大40dB带宽	最大50dB带宽	最小衰减量	最大插入损耗	输入/输出阻抗
TOKO Part Number	6dB Band Width (kHz)Min.	40dB Band Width (kHz)Max.	50dB Band Width (kHz)Max.	Attenuation (dB)Min.	Insertion Loss (dB)Max.	Input/Output Impedance (kΩ)
LFC						
BLFC455B=K	± 15.0	± 30.0		27.0	4.0	1500
BLFC455C=K	± 12.5	± 24.0		27.0	4.0	1500
BLFC455D=K	± 10.0	± 20.0		27.0	4.0	1500
ALFC455E=K	± 7.5	± 15.0		27.0	6.0	1500
ALFC455F=K	± 6.0	± 12.5		27.0	6.0	2000
ALFC455G=K	± 4.5	± 10.0		25.0	6.0	2000
ALFC455H=K	± 3.0	± 9.0		25.0	6.0	2000
LFCS						
BLFCS455B=K	± 15.0	± 30.0		27.0	4.0	1500
BLFCS455C=K	± 12.5	± 24.0		27.0	4.0	1500
BLFCS455D=K	± 10.0	± 20.0		27.0	4.0	1500
ALFCS455E=K	± 7.5	± 15.0		27.0	6.0	1500
ALFCS455F=K	± 6.0	± 12.5		27.0	6.0	2000
ALFCS455G=K	± 4.5	± 10.0		25.0	6.0	2000
ALFCS455H=K	± 3.0	± 9.0		25.0	6.0	2000
LFCSS						
ARLFCSS450HT=K	6.0			40.0	6.0	2000
LFCM						
BLFCM455B=K	± 15.0	± 30.0		27.0	4.0	1500
BLFCM455C=K	± 12.5	± 24.0		27.0	4.0	1500
BLFCM455D=K	± 10.0	± 20.0		27.0	4.0	1500
ALFCM455E=K	± 7.5	± 15.0		27.0	6.0	1500
ALFCM455F=K	± 6.0	± 12.5		27.0	6.0	2000
ALFCM455G=K	± 4.5	± 10.0		25.0	6.0	2000
ALFCM455H=K	± 3.0	± 9.0		25.0	6.0	2000
LFY						
BLFY455B=K	± 15.0		± 30.0	35.0	4.0	1500
BLFY455C=K	± 12.5		± 24.0	35.0	4.0	1500
BLFY455D=K	± 10.0		± 20.0	35.0	4.0	1500
ALFY455E=K	± 7.5		± 15.0	35.0	6.0	1500
ALFY455F=K	± 6.0		± 12.5	35.0	6.0	2000
ALFY455G=K	± 4.5		± 10.0	35.0	6.0	2000
ALFY455H=K	± 3.0		± 9.0	35.0	6.0	2000
LFYS						
BLFYS455B=K	± 15.0		± 30.0	35.0	4.0	1500
BLFYS455C=K	± 12.5		± 24.0	35.0	4.0	1500
BLFYS455D=K	± 10.0		± 20.0	35.0	4.0	1500
ALFYS455E=K	± 7.5		± 15.0	35.0	6.0	1500
ALFYS455F=K	± 6.0		± 12.5	35.0	6.0	2000
ALFYS455G=K	± 4.5		± 10.0	35.0	6.0	2000
ALFYS455H=K	± 3.0		± 9.0	35.0	6.0	2000
LFYSS						
ARLFYSS450HT=K	6.0			60.0	6.0	2000
LFYM						
BLFYM455B=K	± 15.0		± 30.0	35.0	4.0	1500
BLFYM455C=K	± 12.5		± 24.0	35.0	4.0	1500
BLFYM455D=K	± 10.0		± 20.0	35.0	4.0	1500
ALFYM455E=K	± 7.5		± 15.0	35.0	6.0	1500
ALFYM455F=K	± 6.0		± 12.5	35.0	6.0	2000
ALFYM455G=K	± 4.5		± 10.0	35.0	6.0	2000
ALFYM455H=K	± 3.0		± 9.0	35.0	6.0	2000

- Standard Center Frequency: 450kHz, 455kHz
- Attenuation at 450 or 455 ± 100kHz

- 标准中心频率：450kHz, 455kHz
- 衰减量在450或455 ± 100kHz

Notes

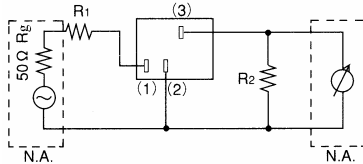
- Center frequency setting at 460 or 468kHz available on order.
- Center frequency tolerance is gettable at ±1kHz or ±2kHz.
- Group Delay Controlled products available on order.
- Product packaging: Cartridge form, 50pcs/strip.

注意

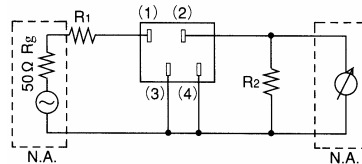
- 中心频率可根据需要设置在460或468kHz。
- 中心频率公差可以达到±1kHz或±2kHz。
- 可支持群延迟控制产品。
- 产品包装：纸箱形式，每条50件。

Test circuit 测试电路

LFC / LFCS / LFCSS



LFCM



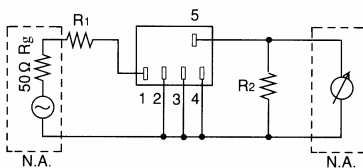
Test conditions

1. C includes test circuit capacitance.
2. R1, R2: Input-output impedance
3. $R_g + R_1 = R_2 = 1.5$ or $2.0k\Omega$
4. N.A.: Network Analyzer

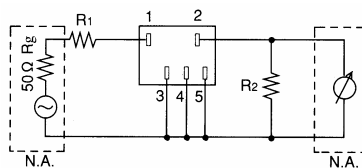
测试条件

1. C包括测试电容量
2. R1、R2：输入 - 输出阻抗
3. $R_g + R_1 = R_2 = 1.5$ 或 $2.0k\Omega$
4. N.A：网络分析仪

LFY / LFYS / LFYSS

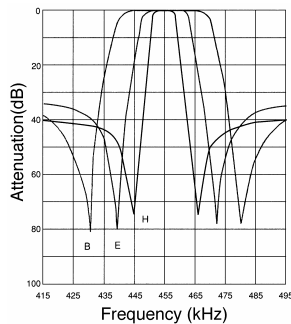


LFYM

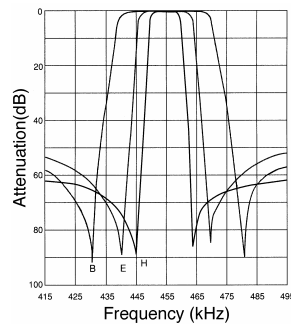


Frequency characteristics 频率特性

LFC455/LFCS455/ LFCSS455/LFCM455



LFY455/LFYS455/ LFYSS455/LFYM455



Impedance Matching

Input and output impedances must be well-matched, otherwise ripple may occur within the passband and the filtered waveform may become asymmetrical.

Grounding (GND)

The filter must be grounded firmly to assure the specified attenuation.

DC Decoupling Capacitor

If our CERAMIC FILTER is impressed DC for long time, rarely the defect may cause.

Please connect to an IF amplifier after a DC cut condenser is inserted in the output side of the product beforehand for safety design. And please consider so that DC isn't impressed directly between GND terminal and Output terminal.

Terminal Connection

The input and output terminals must be connected exactly as specified in the drawing, otherwise a frequency drift may occur.

阻抗匹配

输入和输出阻抗必须很好的匹配，否则，在通带内将会出现纹波，并且滤波波纹将会不均匀对称。

接地

滤波器必须牢固地接地以确保达到规定的衰减量

DC去耦电容

本公司的陶瓷滤波器在长时间输入直流电压的情况下，极少产生不良。

为了安全设计，请设计时考虑到预先在产品输出端插入直流切割电容器之后连接IF放大器，不要直接输入直流电压到产品的接地输出部分。

端子连接

输入和输出端子必须按照图示正确连接，否则可能发生频率漂移。