# 通信设备用陶瓷滤波器(贴面型)
# *Filter for Communication Equipment(SMD)*


## 主要参数 PRINCIPAL PARAMETERS

| 型号 Part No. | 中心频率 (6dB 带宽中心) Center Frequency (Center of 6dB B.W.) (kHz) | 6dB 带宽 6dB Band Width (kHz)min | 40dB 带宽 40dB Band Width (kHz)max | 阻带衰减 Stop Band Attenuation (fo ± 100kHz) (dB)min | 插入衰耗 Insertion Loss (dB)max | 波动 Ripple (dB)max | 输入/输出阻抗 In/Output Impedance (Ω) |
|---|---|---|---|---|---|---|---|
| LTUCG455B | 455 ± 1.5 | ± 15.0 | ± 35.0 | 25 | 4 | (± 9kHz)2.0 | 1000 |
| LTUCG455C | 455 ± 1.5 | ± 12.5 | ± 28.0 | 25 | 4 | (± 8kHz)2.0 | 1000 |
| LTUCG455D | 455 ± 1.5 | ± 10.0 | ± 20.0 | 27 | 4 | (± 7kHz)2.0 | 1500 |
| LTUCG455E | 455 ± 1.5 | ± 7.5 | ± 15.0 | 27 | 6 | (± 5kHz)2.0 | 1500 |
| LTUCG455F | 455 ± 1.5 | ± 6.0 | ± 12.5 | 27 | 6 | (± 4kHz)2.0 | 1500 |
| LTUCG455G | 455 ± 1.5 | ± 4.5 | ± 10.0 | 25 | 6 | (± 3kHz)2.0 | 1500 |
| LTUCG455H | 455 ± 1.5 | ± 3.0 | ± 9.0 | 25 | 6 | (± 2kHz)2.0 | 1500 |

注：中心频率 (fo) 也有450kHz的 Also available with center frequency(fo)of 450kHz


## 主要参数 PRINCIPAL PARAMETERS

| 型号 Part No. | 中心频率 (6dB 带宽中心) Center Frequency (Center of 6dB B.W.) (kHz) | 6dB 带宽 6dB Band Width (kHz)min | 40dB 带宽 40dB Band Width (kHz)max | 阻带衰减 Stop Band Attenuation (fo ± 100kHz) (dB)min | 插入衰耗 Insertion Loss (dB)max | 波动 Ripple (dB)max | 输入/输出阻抗 In/Output Impedance (Ω) |
|---|---|---|---|---|---|---|---|
| LTUCS455B | 455 ± 1.5 | ± 15.0 | ± 35.0 | 25 | 4 | (± 9kHz)2.0 | 1000 |
| LTUCS455C | 455 ± 1.5 | ± 12.5 | ± 28.0 | 25 | 4 | (± 8kHz)2.0 | 1000 |
| LTUCS455D | 455 ± 1.5 | ± 10.0 | ± 20.0 | 25 | 6 | (± 7kHz)2.0 | 1000 |
| LTUCS455E | 455 ± 1.5 | ± 7.5 | ± 15.0 | 27 | 6 | (± 5kHz)2.0 | 1500 |
| LTUCS455F | 455 ± 1.5 | ± 6.0 | ± 12.5 | 27 | 6 | (± 4kHz)2.0 | 1500 |
| LTUCS455G | 455 ± 1.5 | ± 4.5 | ± 10.0 | 25 | 6 | (± 3kHz)2.0 | 1500 |
| LTUCS455H | 455 ± 1.5 | ± 3.0 | ± 9.0 | 25 | 6 | (± 2kHz)2.0 | 1500 |

注：中心频率 (fo) 也有450kHz的 Also available with center frequency(fo)of 450kHz


## 主要参数 PRINCIPAL PARAMETERS

| 型号 Part No. | 中心频率 (6dB 带宽中心) Center Frequency (Center of 6dB B.W.) (kHz) | 3dB 带宽 3dB Band Width (kHz)min | 6dB 带宽 6dB Band Width (kHz)min | 50dB 带宽 50dB Band Width (kHz)max | 阻带衰减 Stop Band Attenuation (fo ± 100kHz) (dB)min | 插入衰耗 Insertion Loss (dB)max | 波动 Ripple (dB)max | 虚假响应 Spurious Response Within 0.1-1.0MHz (dB) | 群延时波动偏差 GDT Ripple deviation (usec)max | 输入/输出阻抗 In/Output Impedance (Ω) |
|---|---|---|---|---|---|---|---|---|---|---|
| LTWC455B | 455 ± 1.5 | ± 10.0 | ± 15.0 | ± 35.0 | 45 | 6.0 | (± 10kHz)3.0 | 15 | (± 10kHz)50 | 1000 |
| LTWC455C | 455 ± 1.5 | ± 8.0 | ± 12.5 | ± 28.0 | 45 | 6.0 | (± 8kHz)3.0 | 15 | (± 8kHz)50 | 1000 |
| LTWC455D | 455 ± 1.5 | ± 7.0 | ± 10.0 | ± 20.0 | 50 | 4.0 | (± 7kHz)3.0 | 20 | (± 7kHz)50 | 1500 |
| LTWC455E | 455 ± 1.5 | ± 5.5 | ± 7.5 | ± 15.0 | 50 | 4.0 | (± 5kHz)3.0 | 20 | (± 5kHz)50 | 1500 |
| LTWC455F | 455 ± 1.5 | ± 4.0 | ± 6.0 | ± 12.5 | 47 | 6.0 | (± 4kHz)3.0 | 20 | (± 4kHz)50 | 1500 |
| LTWC455G | 455 ± 1.5 | ± 3.0 | ± 4.5 | ± 11.0 | 47 | 6.0 | (± 3kHz)2.0 | 20 | (± 3kHz)50 | 1500 |
| LTWC455H | 455 ± 1.5 | ± 2.0 | ± 3.0 | ± 9.5 | 47 | 6.0 | (± 2kHz)2.0 | 20 | (± 2kHz)50 | 1500 |

注：中心频率 (fo) 也有450kHz的 Also available with center frequency(fo)of 450kHz

注：为安全起见，必须用电容器进行隔直流处理

Note:For satety purposes,

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## 主要参数 PRINCIPAL PARAMETERS

| 型号 Part No. | 中心频率 (6dB 带宽中心) Center Frequency (Center of 6dB B.W.) (kHz) | 6dB 带宽 6dB Band Width (kHz)min | 60dB 带宽 60dB Band Width (kHz)max | 阻带衰减 Stop Band Attenuation (fo ± 100kHz) (dB)min | 插入衰耗 Insertion Loss (dB)max | 波动 Ripple (dB)max | 输入/输出阻抗 In/Output Impedance (Ω) |
|---|---|---|---|---|---|---|---|
| LTWC455HT | 455 ± 1.0 | ± 3.0 | ± 9.0 | 70 | 6.0 | (± 2kHz)2.0 | 1500 |
| LTWC455IT | 455 ± 1.0 | ± 2.0 | ± 6.25 | 70 | 6.0 | (± 1kHz)2.0 | 1500 |

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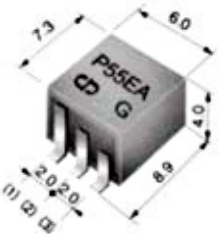
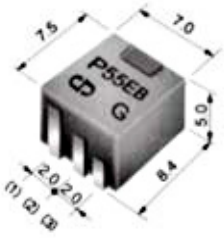
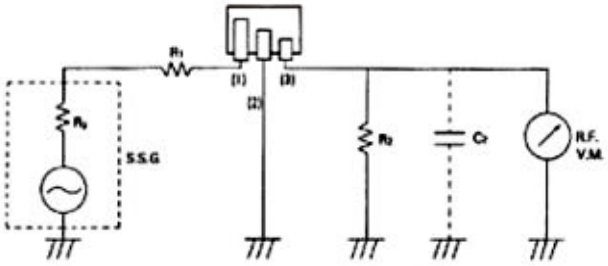
## 外形尺寸 DIMENSIONS




■ (单位：mm) (Unit：mm)

## 测量线路TEST CIRCUIT




■ $R_2+R_1=R_2$=输入/输出阻抗

$R_2+R_1=R_2$=Input/Output Impedance

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| 型号 Part No. | 中心频率 (6dB 带宽中心) Center Frequency (Center of 6dB B.W.) (kHz) | 6dB 带宽 6dB Band Width (kHz)min | 40dB 带宽 40dB Band Width (kHz)max | 阻带衰减 Stop Band Attenuation (fo ± 100kHz) (dB)min | 插入衰耗 Insertion Loss (dB)max | 波动 Ripple (dB)max | 输入/输出阻抗 In/Output Impedance (Ω) |
|---|---|---|---|---|---|---|---|
| LTUPC455BA | 455 ± 1.5 | ± 15.0 | ±35.0 | 25 | 4 | (± 9kHz)2.0 | 1000 |
| LTUPC455CA | 455 ± 1.5 | ± 12.5 | ±28.0 | 25 | 4 | (± 8kHz)2.0 | 1000 |
| LTUPC455DA | 455 ± 1.5 | ± 10.0 | ±20.0 | 27 | 4 | (± 7kHz)2.0 | 1500 |
| LTUPC455EA | 455 ± 1.5 | ± 7.5 | ±15.0 | 27 | 6 | (± 5kHz)2.0 | 1500 |
| LTUPC455FA | 455 ± 1.5 | ± 6.0 | ±12.5 | 27 | 6 | (± 4kHz)2.0 | 1500 |
| LTUPC455GA | 455 ± 1.5 | ± 4.5 | ±10.0 | 25 | 6 | (± 3kHz)2.0 | 1500 |
| LTUPC455HA | 455 ± 1.5 | ± 3.0 | ±9.0 | 25 | 6 | (± 2kHz)2.0 | 1500 |
| LTUPC455BB | 455 ± 1.5 | ± 15.0 | ±35.0 | 25 | 4 | (± 9kHz)2.0 | 1500 |
| LTUPC455CB | 455 ± 1.5 | ± 12.5 | ±28.0 | 25 | 4 | (± 8kHz)2.0 | 1500 |
| LTUPC455DB | 455 ± 1.5 | ± 10.0 | ±20.0 | 27 | 4 | (± 7kHz)2.0 | 1500 |
| LTUPC455EB | 455 ± 1.5 | ± 7.5 | ±15.0 | 27 | 6 | (± 5kHz)2.0 | 1500 |
| LTUPC455FB | 455 ± 1.5 | ± 6.0 | ±12.5 | 27 | 6 | (± 4kHz)2.0 | 1500 |
| LTUPC455GB | 455 ± 1.5 | ± 4.5 | ±10.0 | 25 | 6 | (± 3kHz)2.0 | 1500 |
| LTUPC455HB | 455 ± 1.5 | ± 3.0 | ±9.0 | 25 | 6 | (± 2kHz)2.0 | 1500 |

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## 注意事项(贴面型) NOTICE

1、对产品过度施加压力，会造成产品受损。

2、为了安全起见，请将滤波器输出端通过隔离电容器连接到IF放大器。不要对陶瓷滤波器输出端施加直流电。

3、如果产品需要清理，要确定不会造成产品可靠性降低。

4、如果滤波器需要涂层，则应对树脂材料、固化温度等条件做谨慎估算。

5、回流焊接时，不要使用氯重量比超过0.2%的强酸性焊接。

6、由于产品在防潮袋中封装（干封），因而产品对潮气敏感。在进行回流焊接之前，需作以下处理工作，以避免因热应力而造成产品包装破裂或者产品可靠性降低。打开包装时，应将产品储存在温度低于25℃、相对湿度低于65%的环境中，并应在48小时内焊接。

1. The component will be damaged when an excessive stress is applied.

2. For safety purposes,connect the output of filters to the IF amplitier through a D.C blocking capacitor.Avoid applying a direct current to the output of ceramic filters.

3. In the case that the component is cleaned,confirm that no reliability degradation is created.

4. In case of covering filter with over coat,conditions such as material of resin,cure temperature,and so on shoule be evaluated carefully.

5. Do not use strong a cidity flux,more than 0.2wt% chlorine content,in re-flow soldering.

6. The product,packed in the moisture-proof bag(dry pack),is sensitive to moisture.The following treatment is required before applying re-flow soldering,to avoid package cracks or reliability degradation caused by thermal stress.When unpacked,store the component in an atmosphere of balow 25 degree C and below 65%R.H,and solder within 48 hours.