

Features

- Small and low profile
- Excellent anti-shock performance
- Reflow solderable
- First class auto placement

Applications

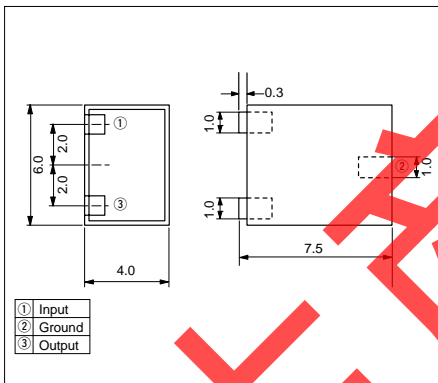
- Cellular phone
- Walkie & Talkie (CB, MCA)
- Car audio (AM radio section)
- Cordless phone

How to Order

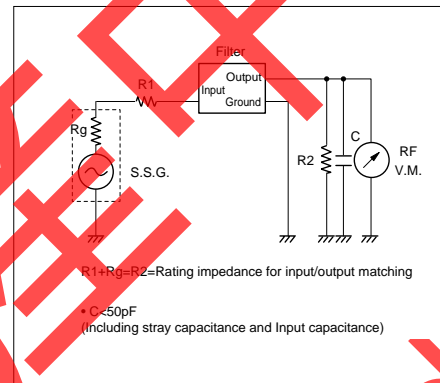
PBFC **455** **P** **12** **D** **R**
 ① ② ③ ④ ⑤ ⑥

Dimensions

(Unit : mm)



Test Circuit



- ① Model
- ② Center Frequency (kHz)
[450-460kHz available]
- ③ No. of Element (P:4 elements)
- ④ Pass Band-Width (kHz) at 6dB
- ⑤ Application
D : General purpose
K : Group delay flat type (Telecom)
- ⑥ Packaging
(R : Taping, 1000pcs/Reel, Nil : Bulk)

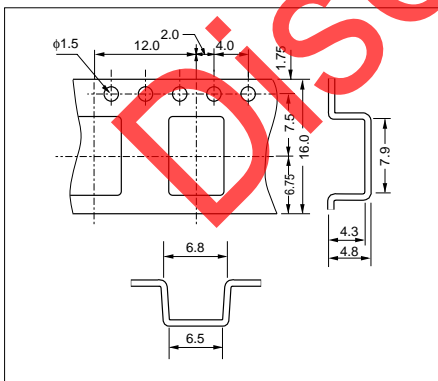
Specifications

| Parts No. | Center Frequency (f ₀) | Ripple | Group Delay Time | Pass Band Width | | Attenuation | Insertion Loss | Input/Output matching Impedance | Operating Temperature |
|-------------|------------------------------------|---------|----------------------------|-----------------|--------------|-------------|----------------|---------------------------------|-----------------------|
| | | | | 6dB | 40dB | | | | |
| PBFC455P20D | 455kHz ±1.5kHz | 2dB max | — | ±10.0kHz min | ±20.0kHz max | 25dB min | 6dB max | 1.5kΩ | -20°C to +80°C |
| PBFC455P15D | | | | ±7.5kHz min | ±15.0kHz max | | | | |
| PBFC455P12D | | | | ±6.0kHz min | ±12.5kHz max | | | | |
| PBFC455P9D | | | | ±4.5kHz min | ±11.0kHz max | | | | |
| PBFC455P6D | 455kHz ±1.0kHz | — | — | ±3.0kHz min | ±9.0kHz max | — | — | — | — |
| PBFC455P4D | | | | ±2.0kHz min | ±7.5kHz max | | | | |
| PBFC455P30K | 455kHz ±1.5kHz | 1dB max | 15μSec max at 455kHz±10kHz | ±15.0kHz min | ±35.0kHz max | — | — | 1.0kΩ | — |
| PBFC455P25K | | | 15μSec max at 455kHz±8kHz | ±12.5kHz min | ±30kHz max | | | | |
| PBFC455P20K | | | 30μSec max at 455kHz±7kHz | ±10.0kHz min | ±25.0kHz max | | | | |

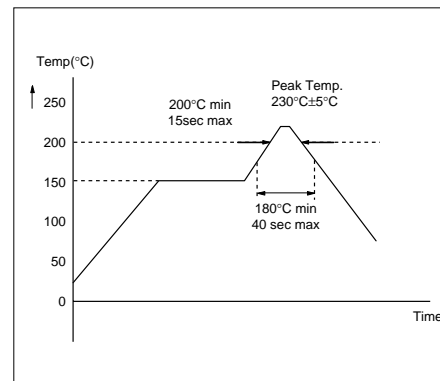
Remarks) Center Frequency is 450 to 460 kHz available.

Taping Dimension

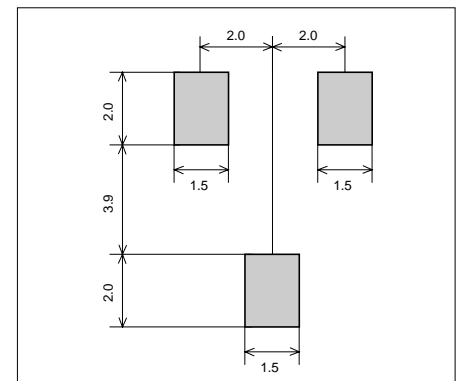
(Unit : mm)

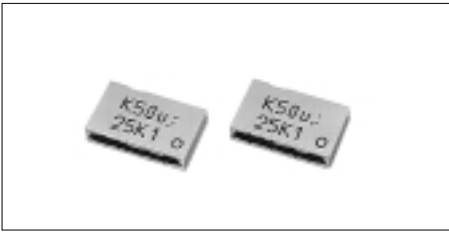


Recommended Temperature Profile



Recommended Land Pattern





Features

- Small and low profile
- Excellent anti-shock performance
- High selectivity

Applications

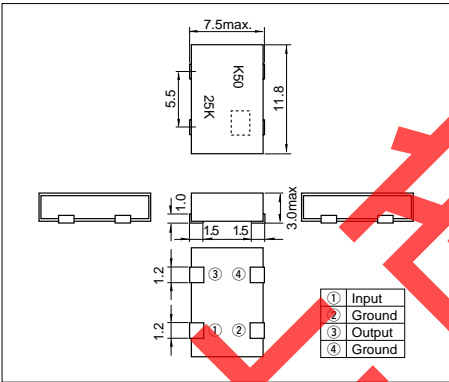
- Cordless phone
- Pager
- Cellular phone

How to Order

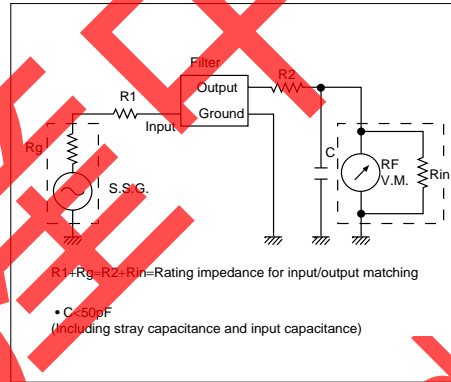
PBFC 455 R 25 K R
① ② ③ ④ ⑤ ⑥

Dimensions

(Unit : mm)



Test circuit



- ① Series
- ② Center Frequency(kHz)
[450-460kHz available]
- ③ No. of Element(R : 6 elements)
- ④ Pass Band-Width(kHz) at 6db
- ⑤ Application
D : General purpose
K : Group delay flat type(Telecom)
- ⑥ Packing(R : Taping, 1000pcs/Reel)

Specifications

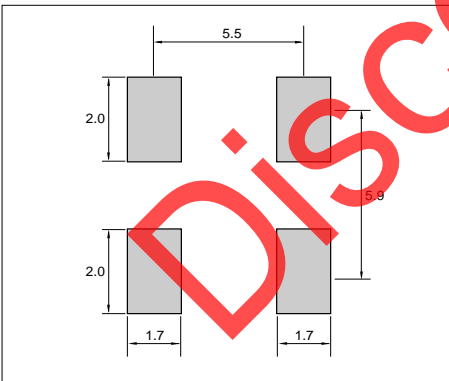
| Parts No. | Center Frequency (f ₀) ^{*1} | Ripple | Group Delay Characteristics | Pass Band Width | | Stop Band Attenuation | Insertion Loss ² | Input/Output Matching Impedance |
|-------------|--|-----------|-----------------------------|-----------------|--------------|-----------------------|-----------------------------|---------------------------------|
| | | | | 6dB | 40dB | | | |
| PBFC455R9D | 455kHz±1.5kHz | 2.0dB max | — | ±4.5kHz min | ±11.0kHz max | 40dB min | 6.0dB max | 1.5kΩ |
| PBFC455R15D | | | | ±7.5kHz min | ±15.0kHz max | | | |
| PBFC455R20D | | | | ±10.0kHz min | ±20.0kHz max | | | |
| PBFC455R20K | 455kHz | 1.0dB max | 30.0μsec. max (455±7.0kHz) | ±10.0kHz min | ±25.0kHz max | 45dB min | 6.0dB max | 1.0kΩ ^{*2} (1.5kΩ) |
| PBFC455R25K | | | | ±12.5kHz min | ±30.0kHz max | | | |
| PBFC455R30K | | | | ±14.0kHz min | ±35.0kHz max | | | |

*1 450-460kHz center frequency available

*2 1.5kΩ option in type K

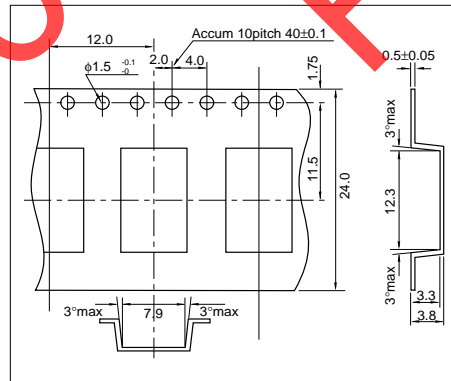
Recommended Land Pattern

(Unit : mm)



Taping Dimension

(Unit : mm)



Recommended Temperature Profile

