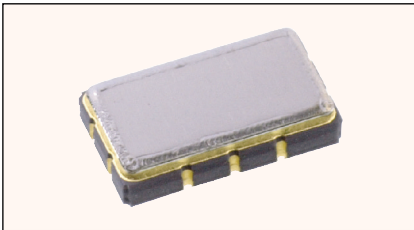


Surface Acoustic Wave Filter (SAW Filter)



# TQS-465AA-7R

## Features

- Miniature size : 6.0(W) x 3.5(D) x 1.15(H)mm
- High attenuation
- High selectivity

## Application

- IF filter for Cellular Phone CDMA system

## Specifications

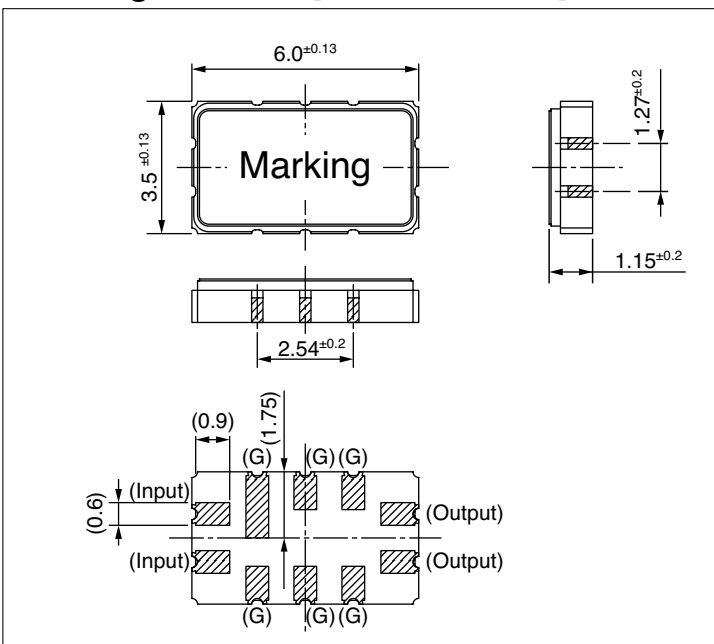
| TQS-465AA-7R  | min.             | typ.                                       | max.    |
|---|------------------|--|---------|
| Nominal frequency [fo]  |                  | 183.6MHz                                   |         |
| 5dB Pass band (Relative to I.L. at fo)                        | fo ± 615 kHz     | fo ± 663 kHz                               |         |
| Insertion loss (at fo)<br>Including losses in matchng circuit |                  | 8.0 dB (*1)<br>9.0 dB (*2)                 | 11.0 dB |
| Passband deviation (within fo±300 kHz)                        |                  | 0.4 dB                                     | 1.2 dB  |
| Pass band ripple (within fo±300 kHz)                          |                  | 0.4 dB                                     | 1.2 dB  |
| Phase linearity (within fo ± 615 kHz)                         |                  | 1.9°RMS                                    | 3.2°RMS |
| Stop band attenuation<br>(Referred to I.L. at fo)             |                  |  |         |
| at fo ± 0.9 MHz   | 33 dB            | 40 dB                                      |         |
| at fo ± 1.25 MHz  | 33 dB            | 41 dB                                      |         |
| at fo ± 1.70 MHz  | 33 dB            | 43 dB                                      |         |
| at fo ± 2.05 MHz  | 33 dB            | 38 dB                                      |         |
| 10MHz ≤ f ≤ fo-9.0 MHz  | 40 dB            | 45 dB                                      |         |
| fo+9.0MHz ≤ f ≤ fo+15.0 MHz                                   | 35 dB            | 41 dB                                      |         |
| fo+15.0MHz < f ≤ fo+100 MHz                                   | 45 dB            | 50 dB                                      |         |
| Terminating impedance   | Input            | Balanced or Unbalanced : 1020 Ω // -2.5 pF |         |
|   | Output           | Balanced or Unbalanced : 810 Ω // -4.4 pF  |         |
| Operating temperature range                                   | -30 °C to +85 °C |  |         |

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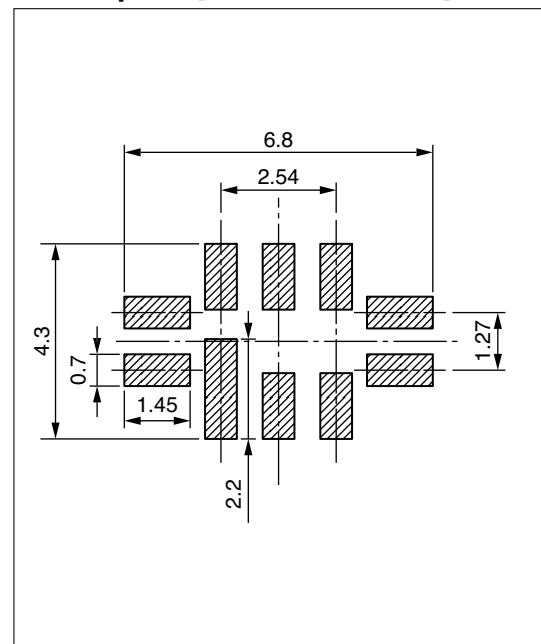
(\*1) Matching inductor size is 1008 (inch)

(\*2) Matching inductor size is 0603 (inch)

## Package Outlines [Dimensions in mm]



## Footprint [Dimensions in mm]



Surface Acoustic Wave Filter (SAW Filter)

IF Filter for Cellular Phone  
CDMA system

TQS-465AA-7R  
183.6 MHz

■ Electrical Data

