

# PIEZO FILTERS SAW FILTERS FOR AUDIO VISUAL EQUIPMENT COLOR TV/VCR SIF



## SAF Series

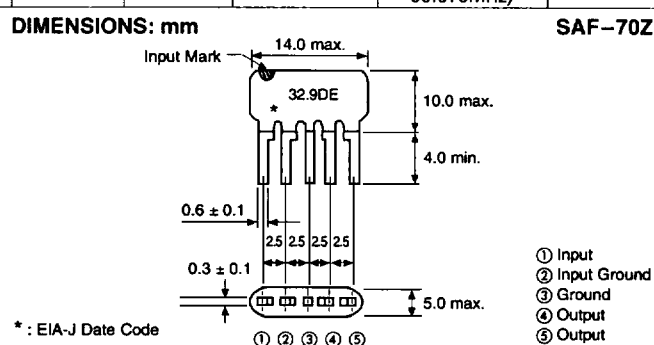
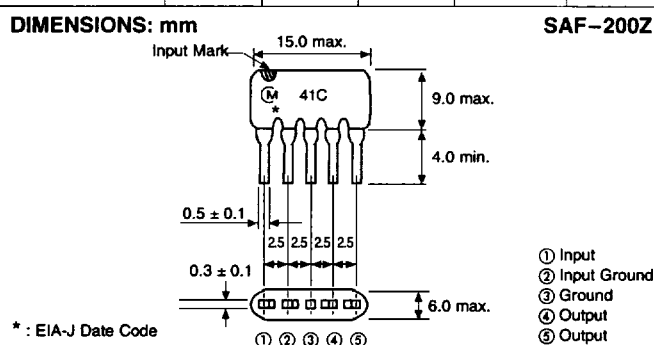
This series of saw filters is designed for TV/VCR applications. These filters are capable of passing 1) SIF and PIF, 2) SIF or 3) PIF. Saw filters are made up of zinc oxide on a glass substrate. Murata provides saw filters for a variety of television standards worldwide.



### SPECIFICATIONS

### SAF MHz

| Part Number   | Insertion Loss (dB) max. | Picture Carrier (dB) max. | Chroma Carrier (dB) min. | Attenuation (dB) max. at fs-0.3MHz | Attenuation (dB) max. at fs+0.3MHz | Adjacent Sound Carrier (dB) min. | Adjacent Picture Carrier (dB) min. | Spurious Response (dB) min.  | Spurious Response (dB) min.           | Temperature Coefficient (ppm/°C) |
|---------------|--------------------------|---------------------------|--------------------------|------------------------------------|------------------------------------|----------------------------------|------------------------------------|------------------------------|---------------------------------------|----------------------------------|
| SAF54MC200Z   | 16(13)                   | 40 min.                   | 17                       | 3                                  | 3                                  | 40                               | 37                                 | 28<br>(0-52.75MHz)           | 30<br>(56.75-70MHz)                   | -28 ± 20                         |
| SAF41MC200Z   | 17(14)                   | 40 min.                   | 17                       | 3                                  | 3                                  | 40                               | 37                                 | 28<br>(0-39.75MHz)           | 30<br>(43.75-56MHz)                   | -28 ± 20                         |
| SAF39.2MC70Z  | 19(14)                   | 40 min.                   | 35                       | 6                                  | 6                                  | 40                               | 30                                 | 30<br>(28-31.2MHz)           | 30<br>(40.7-45MHz)                    | -10 ± 20                         |
| SAF33.4MC200Z | 20(18)                   | 40 min.                   | 20                       | 4                                  | 4                                  | 40                               | 35                                 | 30<br>(0-31.9MHz)            | 30<br>(40.4-47MHz)                    | -10 ± 20                         |
| SAF54MD200Z   | 20(17)                   | within ±3                 | 20                       | fs-0.2MHz<br>3                     | fs-0.2MHz<br>3                     | 35                               | 30                                 | 30<br>(0-70MHz)              | 15 <sup>1</sup><br>(55.5-57.5MHz)     | -28 ± 20                         |
| SAF41MD200Z   | 17(14)                   | within ±3                 | 20                       | fs-0.2MHz<br>3                     | fs-0.2MHz<br>3                     | 35                               | 35                                 | 30<br>(0-55MHz)              | 15 <sup>1</sup><br>(42.5-44.5MHz)     | -28 ± 20                         |
| SAF33.4MD200Z | 20.5(16)                 | within ±3                 | 20                       | fs-0.2MHz<br>3                     | fs-0.2MHz<br>3                     | 35                               | 35                                 | 30<br>(0-50MHz)              | 15 <sup>1</sup><br>(34.67-37.7MHz)    | -10 ± 20                         |
| SAF33.0MDA70Z | 26(23)                   | 5.0 ± 3.0                 | 12                       | fs-0.2MHz<br>3                     | fs-0.2MHz<br>3                     | 26                               | 20                                 | 15<br>(0-39.5MHz)            | 8 <sup>1</sup><br>(34.67-37.7MHz)     | -10 ± 20                         |
| SAF32.9MDE70Z | 25(23)                   | 4.3 ± 3.0                 | 15                       | fs-0.2MHz<br>3                     | fs-0.2MHz<br>3                     | 35                               | 25                                 | 22<br>(0-31.5MHz)            | 10 <sup>1</sup><br>(35.27-38MHz)      | -10 ± 20                         |
| SAF31.4MD70Z  | 28(26)                   | within ±3                 | 15                       | fs-0.2MHz<br>3                     | fs-0.2MHz<br>3                     | 35                               | 35                                 | 30 <sup>1</sup><br>(0-45MHz) | 15 <sup>1</sup><br>(32.645-35.675MHz) | -10 ± 20                         |



• SAF54MC200Z, SAF41MC200Z and SAF33.4MC200Z are for Split Carrier System.  
• SAF54MD200Z, SAF41MD200Z, SAF33.4MD200Z and SAF31.4MD70Z are for Quasi-Parallel System.

• SAF33.0MDA70Z is for Multi-Sound TV in Northern Europe. ( ): Typ. values  
• SAF32.9MDE70Z is for Multi-Sound TV in U.K.

<sup>1</sup>Minimum attenuation between picture carrier and sound carrier  
0dB level should be at fs.

### FREQUENCY CHARACTERISTICS

