

1. APPLICATION: TV IF FILTER

2. SYSTEM: B/G, D/K

3. MODEL: K2966C

4. ELECTRICAL CHARACTERISTICS

| | | |
|--|-----------|----------------|
| 4-1 Insertion Loss: 50Ω | | 35.0 dB Max. |
| 4-2 Attenuation (ref. : 36.9 MHz): | | |
| fp-7 | 30.90 MHz | -42.0 dB Max. |
| fp-6 | 31.90 Mhz | -38.0 dB Max. |
| fp-6.5 | 32.40 MHz | -20.0±2.0 dB |
| fp-5.5 | 33.40 MHz | -18.5±2.0 dB |
| fp-4.43 | 34.47 MHz | -3.0±2.0 dB |
| fp | 38.90 MHz | -6.0±2.0 dB |
| fp+1.5 | 40.40 MHz | -40.0 dB Max. |
| fp+2.5 | 41.40 MHz | -40.0 dB Max. |
| 4-3 Amplitude ripple within passband: | | 0.5 dB Max. |
| 4-4 Outband Rejection: | | |
| 25.00 to 30.90 MHz | | -37.0 dB Max. |
| 40.40 to 45.00 MHz | | -35.0 dB Max. |
| 4-5 Temperature Coefficient Of Center Frequency: | | -75 ppm/°CMax. |
| 4-6 Maximum DC Voltage: | | 10V DC. |
| 4-7 Operating Temperature Range: | | -10°Cto +70°C |
| 4-8 Storage Temperature Range: | | -20°Cto +80°C |

5. RELIABILITY TEST

5-1 Mechanical Shock

The components shall remain within the electrical specifications after 1000 shocks, acceleration 392 m/s², duration 6 milliseconds.

5-2 Vibration Fatigue

The components shall remain within the electrical specifications after loaded vibration of 600 rpm to 3300 rpm, amplitude 1.5 mm, x, y, z, direction for 2 hours.

5-3 Terminal Strength

The components shall remain within the electrical specifications after pulled 2 kgs weight for 10 seconds towards an axis of each terminal.

5-4 High Temperature Storage

The components shall remain within the electrical specifications after being kept at the 85°C ambient temperature for 96 hours, then kept at room temperature for 2 hours.

5-5 Low Temperature Storage

The components shall remain within the electrical specifications after being kept at the -25°C for 96 hours, then kept at room temperature for 2 hours.

5-6 Humidity Test

The components shall remain within the electrical specifications after being kept at the condition of ambient temperature 40°C and 90 to 95% RH for 96 hours, then kept at room temperature and normal humidity for 2 hours.

5-7 Thermal Shock

The components shall remain within the electrical specifications after 10 cycles of Heat-Cycles-Testing (one cycle: -25°C for 20 minutes, then 85°C for 20 minutes), then kept at room temperature for 2 hours.

5-8 Solder-heat Resistance

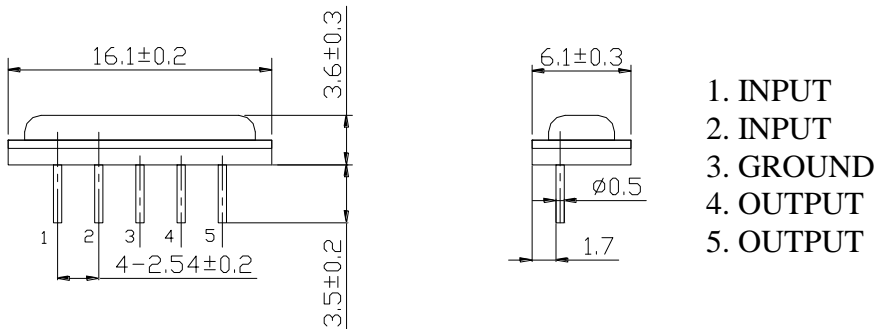
The components shall remain within the electrical specifications after dipped in the solder at 260°C for 10±1 seconds, then kept at room temperature for 2 hours. (Terminal must be dipped leaving 1.5 mm from the case.)

5-9 Solderability

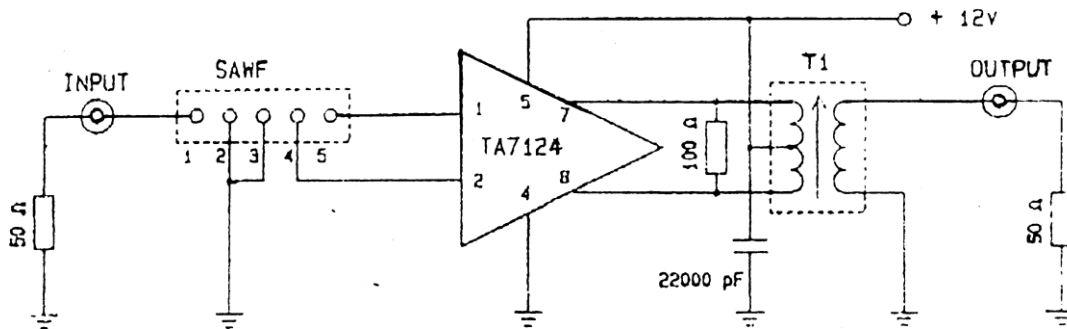
Solderability of terminals shall be kept at more than 90% after dipped in the solder flux at 260±5°C for 2±0.5 seconds.

6. PACKAGE DIMENSION

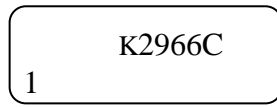
(S-6BA)



7. MEASUREMENT CIRCUIT



8.MARKING



K2966C MODEL
1 PIN NO.1 MARK

9. FREQUENCY RESPONSE

