



ANATECH ELECTRONICS, INC.

Manufacturer of RF & Microwave Filters and Products



310 KHz Crystal Filter

P/N: AM310CR176

Center Frequency: 310 KHz

Insertion Loss: 1.5 dB - 6.0 dB (see note 1)

Bandwidth (-60dB): 8.0 KHz max

Bandwidth (-6 dB): 3.5 - 5.5 KHz

Rejection Band (-60 dB): DC- (Fo- 4 KHz), (Fo+ 4KHz) - 620 KHz

Rejection Band (-40 dB): 620 KHz - 6.0 MHz (see note 2)

Insertion Loss at Temperature: -32 - +25°C: 2.5 dB

+25 - +85°C: 3 dB

Insertion Loss at Frequency: -40 - 85°C, Fo +/- 400Hz: 1 dB max

Insulation Resistance: 500 M Ohm min

Input/Output Impedance: 1.8 K Ohm

Operating Temperature: -40* to +85°C

Storage Temperature: -55* to +100°C

Note 1: Insertion loss is defined per figure as: $LT = 20 \log E_o (cal)/E_o (test)$
where ES adjusted to set $E_o (cal) = 1.0 \text{ Vrms}$

Note 2: In the reject band at the frequencies listed below, spurious not meeting the 40 dB requirement will be acceptable if the spurious response has an attenuation of 15 dB min and a bandwidth of 30 KHz maximum at 40 dB of attenuation.

Frequencies:

- a. 810 KHz +/- 200 KHz
- b. 2160 +/- 200 KHz
- c. 3610 +/- 300 KHz