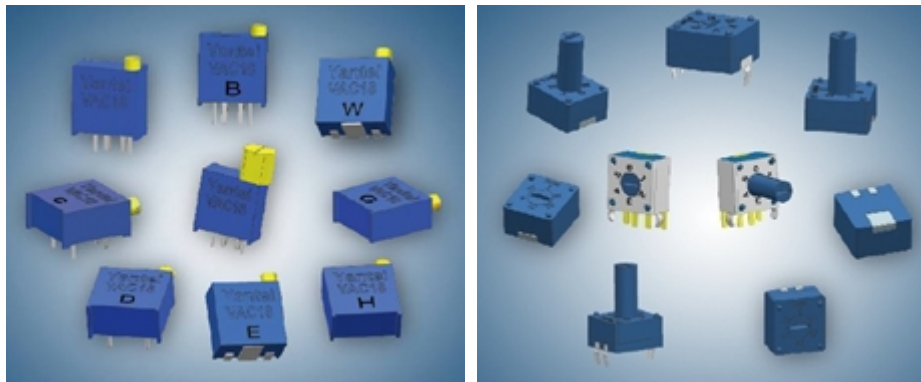


CATV and Equalizer Application

SMD & DIP Variable Attenuator | International Patent Product, World-first

- VAD Series, Step variable (DC ~ 3GHz)
- VAC Series, Continuous variable (DC ~ 2GHz)



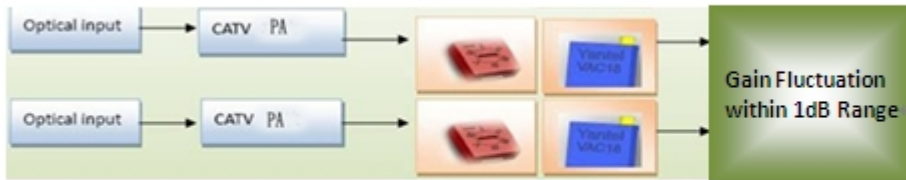
- * SMD & Dip package
- * Ultra Small Size: 10 x 11 x 6mm (VAD), 9.5 x 5 x 10mm (VAC)
- * Wide frequency range: DC ~ 3GHz (VAD), DC ~ 2GHz (VAC)
- * Operating Temperature: -40°C~+105°C
- * 60 cycles rotation (VAD), at least 500 cycles rotation (VAC)
- * Impedance: 50Ω or 75Ω
- * Power Handling: 125mW (VAD), 1W (VAC)
- * Compared with digital attenuators, zero distortion, no extra IP3, lower noise, higher reliability
- * Attenuation values can be adjusted directly on the PCB.
Operation easier, safer and more efficient
- * Customized attenuation values available

VAD product details, please see the attached or click: http://www.yantel-corp.com/en/products/products1_160.html

VAC product details, please see the attached or click: http://www.yantel-corp.com/en/products/products1_170.html

VAD/VAC in CATV Application:

• CATV Amplifier, Optical Workstation, Optical Transceiver



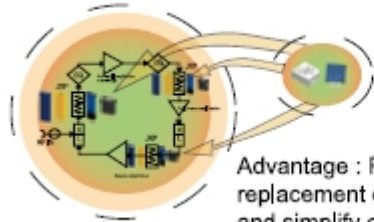
Advantage: Adjust the gain of each power amplifier, meeting the requirement "gain fluctuation within 1dB range" for multi-channel power amplifiers.

• Replacing SJ-B Attenuator(in CATV)



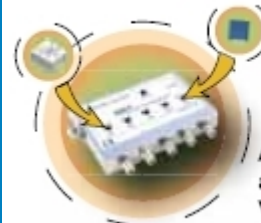
Advantage : Ultra small size and excellent RF Performance(Low VSWR,low insertion loss, high attenuation accuracy)at 1GHz,1.5GHz &2GHz, catering for the miniaturization and higher frequency trend in CATV application.

• Replacing JXP Fixed Attenuator (in CATV)



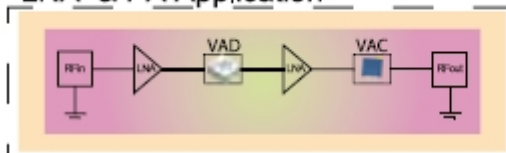
Advantage : Reduce components count as a replacement of JXP fixed attenuators,cut cost and simplify operation,

• CATV Equalizer Application



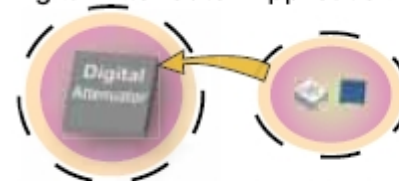
Advantage : Operate from DC to 3GHz, high attenuation accuracy, available in step and continuous types. Low VSWR, low insertion loss. Effectively tune the gain flatness in CATV bandwidth . Ideal for CATV equalizer.

• LNA & PA Application



Advantage: Accurate gain adjustment for RF signal , available in accurate adjustment of small attenuation for pre-stage amplifier and accurate adjustment of big attenuation for final amplifier,

• Digital Attenuator Application



Advantage:Compared with digital attenuators, zero distortion, no extra IP3, lower noise, higher reliability.