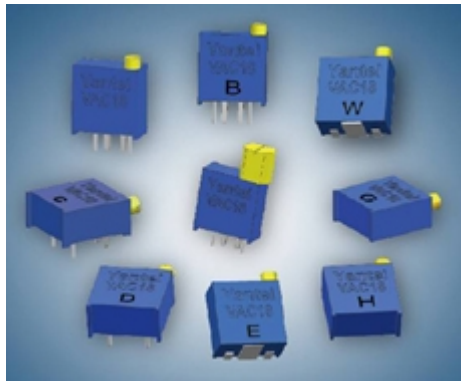


## CATV and Equalizer Application

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

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



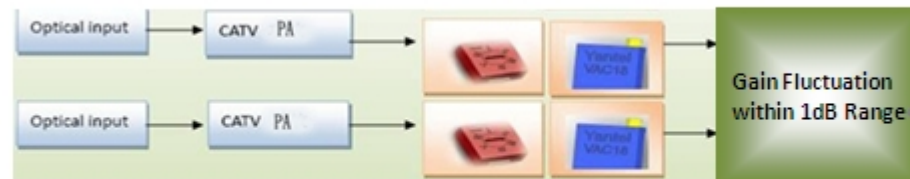
- \* SMD & Dip package
- \* Ultra Small Size: 10 x 11 x 6mm (VAD ), 9.5 x 5 x 10mm (VAC )
- \* Wide frequency range: DC ~ 3GHz (VAD), DC ~ 2GHz (VAC)
- \* Operating Temperature: -40°C ~ +105°C
- \* 60 cycles rotation (VAD ), at least 500 cycles rotation (VAC )
- \* Impedance: 50Ω or 75Ω
- \* Power Handling: 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](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](http://www.yantel-corp.com/en/products/products1_170.html)

**VAD/VAC in CATV Application:**

- CATV Amplifier, Optical Workstation, Optical Transceiver



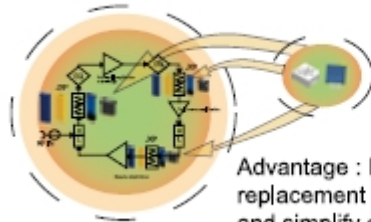
Advantage: Adjust the gain of each power amplifier, meeting the requirement "gain fluctuation within 1dB range" for multi-channel power amplifiers.

- Replacing SJ-B Attenuator(in CATV)



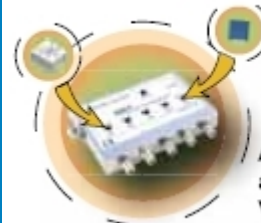
Advantage : Ultra small size and excellent RF Performance(Low VSWR,low insertion loss, high attenuation accuracy)at 1GHz,1.5GHz &2GHz, catering for the miniaturization and higher frequency trend in CATV application.

- Replacing JXP Fixed Attenuator (in CATV)



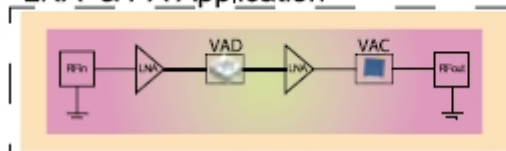
Advantage : Reduce components count as a replacement of JXP fixed attenuators, cut cost and simplify operation,

- CATV Equalizer Application



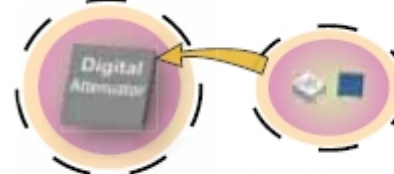
Advantage : Operate from DC to 3GHz, high attenuation accuracy, available in step and continuous types. Low VSWR, low insertion loss. Effectively tune the gain flatness in CATV bandwidth . Ideal for CATV equalizer.

- 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.