

## NFA SERIES



### Product Family

Wide Frequency Attenuators for SMT

### Description

Radio Frequency (RF) component that has specific fixed attenuation (reduction) value in decibels (db). NIC NFA series is ultra-small (1.0mm x 1.0mm) chip incorporate three resistive elements into fixed attenuation from 0.5 ~ 20db. Frequency range is DC ~ 3.0GHz.

### General Specifications

- Temperature Range      -40°C ~ +125°C
- Frequency Range        DC to 3.0GHz
- Attenuation              0.50 ~ 20.0db
- Attenuation Tolerance   +/-0.1 ~ +/-2.5db
- VSWR                     1.1 & 1.2 max.
- Characteristic Impedance 50ohm
- Power Rating            100mW
- Size                      0404 (1.0mm x 1.0mm)

### Applications/Functions

Useful in gain adjustment, impedance matching, signal reduction and buffering - isolation between adjacent elements (amplifiers, oscillators, mixers or filters) within the signal chain.

- High frequency amplifier circuits
- Oscillators
- Mixer / Filter Circuits

Types of equipment potentially using SMT attenuators includes the RF- Wireless communications technologies: 3G, Bluetooth, Wireless LAN, Wi-Fi, HiperLAN, Telematics, 802.1, 802.11b, 802.11g, LMDS and UWB

### Competition

Panasonic	EXB24AT Series
Vishay	CZA04S Series
Kamaya	RAC101A Series

### Trends

Growth of wireless data and voice communication should result in increasing demand for higher frequency passive components including chip attenuators.

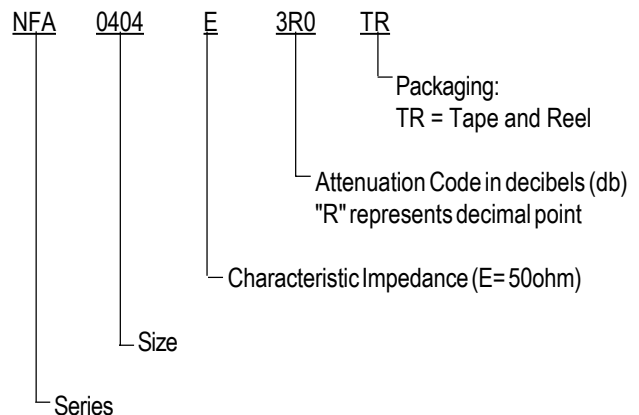
### Performance Data

See performance data at [www.RFpassives.com](http://www.RFpassives.com)

#### Key Parameters - Substitutes & Selling Tips

- + Ultra small size for high density & portable devices
- + Wide frequency from Audio to 3GHz applications
- + Replace multiple (resistive) components with single attenuator
  - ... saves space
  - ... saves placement costs
  - ... reduces total system cost

### Part Numbering System



NIC Global Locations: [LINK](#)

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