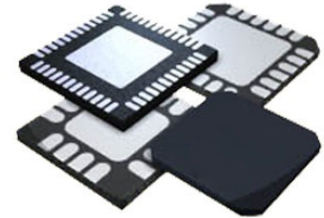


7Bit 0.25dBStep 31.75dB 6GHz 24-Pin VFQFPN EP Reel



Images are for reference only

[Inquiry](#)

Manufacturer: [Renesas Technology Corp](#)

Package/Case: QFN

Product Type: RF Integrated Circuits

RoHS: RoHS Compliant/Lead free 

Lifecycle: Active

General Description

The F1958 is part of IDT's Glitch-Free™ family of DSAs optimized for the demanding requirements of Base Station (BTS) radio cards and numerous other applications. This device is offered in a compact 4 × 4 mm 24-VFQFPN package with 50Ω input and output impedance for ease of integration into the radio or RF system. The F1958 offers very high reliability due to its construction from a monolithic silicon die and has very low insertion loss with minimal distortion. Additionally, the device is designed to have extremely accurate attenuation levels. These accurate attenuation levels improve system SNR and/or ACLR by ensuring system gain is as close to the targeted level as possible. In addition, the very fast settling time in parallel mode is ideal for fast switching systems. Finally, the device uses our Glitch-Free™ technology in contrast to competing DSAs.

Key Features

- Serial and 7-bit parallel interface
- 31.75dB range
- 0.25dB steps
- Glitch-Free™: Low Transient Overshoot
- 500ns settling time for 0.25dB steps
- Ultra linear > 63dBm IIP3
- Low insertion loss < 1.7dB at 4GHz
- Attenuation error < ±0.2dB at 4GHz
- Bi-directional RF use
- 3.3V or 5V supply
- 40°C to +105°C operating temperature
- 4 × 4 mm 24-VFQFPN package

Recommended For You

F1958NBGK

Renesas Technology Corp
QFN-24

F1956NBGI

Renesas Technology Corp
QFN

F1912NCGI

Renesas Technology Corp
QFN

F1975NCGI8

Renesas Technology Corp
VFQFPN

F1977NBGI8

Renesas Technology Corp
QFN

F1178NBGI

Renesas Technology Corp
QFN36

F1950NBGI

Renesas Technology Corp
QFN

F1192NLGI

Renesas Technology Corp
BGA

F1701NBGI

Renesas Technology Corp
QFN

F1653NLGI8

Renesas Technology Corp
BGA

F1975NCGI

Renesas Technology Corp
QFN

F1950NBGI8

Renesas Technology Corp
QFN

F1100NBGI

Renesas Technology Corp
QFN36

F1792NLGI

Renesas Technology Corp
VFQFN24

F1358NBGI

Renesas Technology Corp
36-VFQF