

50Ω 0-31.75 dB, 0.25 dB step, 5M to 6G Hz

Case PN: 6FJ6H41C5A3

Features:

- * Frequency Range: 5M to 6 GHz;
- * Wide Attenuation Range: 31.75 dB
- * Fine Attenuation Resolution: 0.25 dB
- * High Power Handling @8 GHz in 50Ω (+27 dBm CW)
- * High Linearity: IIP3 of 55 dBm
- * Short Attenuation Transition Time (<500 ns)
- * Ultra Compact Size, 2.0625"x1.3125"x0.48"
- * USB Control (Type A connector)
- * Stainless Steel SMA Female Connector
- * High Quality Rogers RO4350 RF PCB
(very low loss and high thermal performance)
- * Electronless Nickel Plating and Permanent Laser Marking
- * ROHS Compliant

Applications:

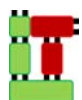
- * Test Instrumentation
- * General Purpose Wireless
- * Radar & VSAT
- * SDR & Ham Radio

General Description:

A1Q5M6G32 is a general purpose, single channel programmable attenuator suitable for wide range of signal level control applications from 5M to 6 GHz. The Attenuator provides 0 to 31.75 dB attenuation in 0.25 dB steps.

The Attenuator is housed in an ultra-compact and rugged enclosure with two SMA Female connectors. The attenuator can be controlled via USB. Full software supported with our user-friendly GUI application for Windows and Linux.

It uses USB Type A connector for connection. Control Software is included in USB Stick.



Electrical Specifications at +25° C:

| Item | Parameter | Conditions | Min | Typ | Max | Units |
|------|----------------------------|--------------|-----|---------|------------|-------|
| 1 | Operating Frequency | | 5M | | 6G | Hz |
| 2 | Attenuation Range | 0.25 dB Step | | 0-31.75 | | dB |
| 3 | Insertion Loss | | | 1.4 | | dB |
| 4 | Absolute Attenuation Error | | | | ± (0.2+4%) | dB |
| 5 | Return Loss | | | 15 | | dB |
| 6 | Input P1dB | | | 31 | | dBm |
| 7 | IIP3 | | | 55 | | dBm |

Absolute Maximum Ratings

| Item | Parameter | Rating | UNITS |
|------|--------------------------|-------------|-------|
| 1 | Max input Power at RFIN | +30 | dBm |
| 2 | Max Input Power at RFOUT | +27 | dBm |
| 2 | Operating Temperature | -40 to +85 | °C |
| 3 | Max Storage Temperature | -40 to +150 | °C |

Outline Drawing (inch)

