

**PROTEK –
PNH1275**



PROTEK DEVICES has introduced a high-energy extended pulse transient voltage suppressor module ideal for heavy duty remote DC power supply, base station and microwave protection, military-grade power bus, and other similar circuit protection applications.

The PNH1275 and PNH1275B are high power transient voltage suppressors (TVS) designed to provide protection against long duration switching transient threats. These heavy duty devices are suited for DC applications that include heavy duty motors, generators, or where DC power is being switched on and off at frequent intervals.

Features:

- RTCA DO-160G COMPLIANT PRODUCT
- MIL-STD-1275E SEC 5.3.3.2 COMPLIANT PRODUCT
- Compatible with IEC 61000-4-5 (Surge): 20kA, 8/20µs Level 3(Line-Gnd) & Level 4(Line-Line)
- 45,000 Watts Peak Pulse Power per Line (tp = 1ms)
- High Average (DC) Power Dissipation
- Unidirectional and Bidirectional Configurations
- Superior Heat Dissipation Capability
- Each Device 100% Tested

Applications:

- Remote DC Power Supply, Base Station & Microwave Protection
- MIL-STD-1275 Power Bus Protection
- Electric Drive Motors & Controls
- Mobile Electr. Operating in Harsh Environment

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Please contact us for inquiries, samples or technical requests.

**IQD –
ICPT-1**



New atomic clock / Rubidium Oscillator Leaflet

The ICPT-1 is a rubidium clock designed using the Coherent Population Trap method. The advantage of this type over a traditional rubidium frequency source is the small size of only 36.0 x 45.0 x 14.5 mm and a low current consumption of only 0.5 A. Instead of working with a Rubidium lamp the ICPT-1 uses a laser to initiate oscillation – this increases the lifetime of the atomic clock. With the possibility of a 1 PPS linkage it is perfectly suited to support synchronization applications and can be used as timing reference.

Specifications:

- 36.0 x 45.0 x 14.5 mm
- 10 MHz
- 1 PPS input and output
- ±0.5 ppb over -45 to 70 °C
- Typical short term stability of 0.09 ppb @ 1 s
- Digital frequency adjustment
- 3.3 V supply voltage
- HCMOS output

Applications:

- Satellite & secure communications
- Navigation systems
- Financial
- Utility
- Security
- Communications timing applications

[REQUEST DATASHEET PER E-MAIL: ICPT-1](#)

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**IQD –
IQXO-951**



Variable supply voltage oscillator

Many of today's industrial and consumer applications require batteries as power source. Therefore, products need to handle a change in voltage as the battery discharges. This can lead to design issues when using a standard oscillator with a fixed supply voltage. A discharging battery may cause a decrease in the source voltage, which consequently change the frequency of the oscillator. Following this, the timing accuracy within the application will decline.

Specifications:

- IQXO-951 2016
- IQXO-951 2520
- IQXO-951 25TS
- IQXO-951 3225
- SMD: 2.0 x 1.6 mm / 2.5 x 2.0 mm or 3.2 x 2.5 mm
- Frequency range: 1 to 50 MHz
- 1.62 V to 3.63 V variable
- ±5 ppm over -40 to 85 °C
- ±10 ppm over -40 to 85 °C
- ±25 ppm over -40 to 85 °C
- ±50 ppm over -40 to 125 °C *(please contact us)
- 1.62 V to 3.63 V variable
- CMOS output

Applications:

- IoT
- Low power and portable industrial applications
- Consumer application

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