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Find the *Acromag IP470* at our website: ***Click HERE***

Acromag, Incorporated
30765 S Wixom Rd, PO Box 437, Wixom, MI 48393-7037 USA
Tel: 248-624-1541 ♦ Fax: 248-624-9234 ♦ http://www.acromag.com

Known Difference Between IP470 and the IP470A

The IP470A has been designed as a drop-in replacement for the IP470. The known differences between the existing ip470 and its replacement, the IP470A, are listed below. Our testing indicates that the new IP470A should work in all current customers' applications.

Input Specification

The IP470A, as was the case with the IP470, has minimal input hysteresis. To improve noise immunity a 125nS debounce was added to each input channel. This debounce is reflected in the IP470A response time.

The input capacitance has increased from 10pF typical to 24pF typical. This may result in a slight change to the skew rate.

Details of the specification changes are shown in the table below.

	IP470	IP470A
Input Hysteresis	0.8mV Min	0.0mV Min
Input Capacitance	10pF Typ., 20pF Max.	24pF Typ., 34pF Max.
Input Response Time[1]	Not Specified	200nS Typ, 260nS Max

1. Measured from start of signal to interrupt event detection.

Output Specification

The output low voltage specification has changed as shown in the following table.

	IP470	IP470A
Output Low Voltage (V_{OL})	0.2V Typical, 0.4V Maximum at 12mA.	0.26V Typical, 0.45V Maximum at 15mA.
Output ON Resistance	33Ω.	21Ω.
Turn On-Time2	Not Specified	125nS Typical
Turn On-Time2,3	Not Specified	3μS Typical

2. Measured from I/O Write Acknowledge to appropriate output logic level.

3. Using 4.7K pull-up resistors

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Other Feature

- **Start-Up Time**

The IP470A requires a maximum of 200mS of configuration time immediately after power-up. During this period, the IP module will not respond to any input. The I/O will remain glitch-free during power-up.

- **Improved Debounce Accuracy**

The debounce no longer has an –25% interval range. The error is now only ±250nS on the IP470A.

- **Improved Storage Temperature Range**

The IP470A now offers a storage temperature range of -55°C to 150°C.

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