

**Internal Component Change to CPC1976Y
PCN1020
April 4, 2011**



PCN1020

To Our Valued Customers:

The following is to inform Clare customers of an impending change to Clare's CPC1976Y AC solid state switch. As part of our effort and commitment to continuous improvement of our processes and products, we occasionally make revisions to the construction and/or materials used. Clare's quality system requires customer notification under the circumstances outlined below.

Clare's notification policy states:

Clare is mindful that changes to process or product could have an adverse impact on our customers.

Therefore we verify, through our qualification methodology, that a change does not negatively affect product quality or reliability. We also verify that it does not impact form or fit.

Changes to function are notified to the customer if the change could adversely affect the customer but not if the change is to enhance product performance beyond the current specification, for example, higher isolation voltage capability for Solid State Relays.

In cases where a planned change would impact form, fit, or would adversely affect function, quality or reliability, we notify the customer 60 days in advance.

We also notify our customers of planned product obsolescence.

The following definitions apply:

Form: the visual appearance including color, marking, and surface finish

Fit: the external dimensions and associated tolerances

Function: the electrical, mechanical, thermal, quality and reliability performance characteristics

Clare notifies customers of the changes using a Product Change Notification (PCN). Attached are the details of the pending product change.

Sincerely,

Steve Andrezyk
Director of Marketing

Part Change Notification

The PCN number assigned to the change is **PCN1020** and should be referenced in any correspondence related to the change.

Products Affected

CPC1976Y

Detail Description of Change

Clare has modified the internal components to include two independent SCR devices that are triggered via a solid state optical driver circuit. Both types of devices have been in use and qualified at Clare for some time and replace multiple components including optically triggered SCR die and a small hybrid circuit assembly. The changes do not result in any alterations of the electrical specifications as published on the Clare datasheet for the CPC1976Y. It is expected that the change will be transparent in use of the device in existing applications.

Reason for the Change

In order to establish a more reliable and consistent supply chain for the raw materials used in the device, Clare has redesigned the CPC1976Y with fewer components and the replacement of SCR die that were obtained from an outside supplier. The new SCR's selected for use are internally sourced such that Clare will have direct control over the procurement with increased capability for on-time delivery and ability to expedite product delivery.

Anticipated Impact on quality and reliability

The change will have no affect on product quality or reliability. A reliability report is available upon request.

Contact Information

For any questions related to the PCN notice, please contact Clare Quality Assurance as indicated below:

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