



Monday November 26, 2007

To: Pulse Customers

Re: Halogen Free Compliance Position on Pulse Components

The electronics industry is beginning the process of complying with a new environmental initiative, known as the "Halogen Free" initiative. This is a self-imposed initiative that bans the use of halogenated materials in the manufacture of electronic equipment. There are certain types of halogenated materials that are believed to have a detrimental effect on the environment and also to be toxic to persons and animals. The types of materials impacted are wire insulation, brominated flame retardants in epoxies, encapsulants, polymers and printed wiring boards.

Pulse has begun to anticipate industry trends and possible International Laws and Regulations related to the elimination of Halogenated materials in electronic components and we have begun to assess the impact and we are now investigating suitable *Halogen Free compliant* materials in all standard products.

As a result of this investigation, Pulse has developed and is currently releasing a new product line to provide *Halogen Free* compliant components that meet the requirements of the IPC Organization standards.

Road Map

There are already Pulse standard products that comply with the halogen free requirements. To easily determine the halogen free status of a Pulse component, we will identify all halogen free components and assemblies with the designation suffix, "H". This suffix will be added to the existing part number to identify the part as *Halogen Free*. For example, the Pulse halogenated component, H5007NL will become H5007NLH. The *Halogen Free compliant* parts will be footprint interchangeable with our standard halogenated components.

Pulse plans to implement this Halogen Free project in three phases;

Phase I - Evaluation will be completed by the end of Q4 2007

Phase II - Materials testing and evaluation will be completed by end of Q1 2008

Phase III - Full production by end of Q2 2008

Pulse remains informed of industry trends and continues to be proactive on Environmental Compliance issues pertaining to our components and assemblies.

Contacts

For questions regarding the *Halogen Free* compliance status or product availability, please contact your local Pulse Representative or Customer Service Department. If you have technical questions regarding the materials, quality qualifications, or other technical matters, please contact the Pulse Corporate Headquarters.

Regards,

A handwritten signature in black ink that reads "Allan Alvarado".

Allan Alvarado
Chemical Engineer
Pulse, A Technitrol Company