

Road Map to RoHS Compliance
Grayhill, Inc.
Components Division
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The European Union has passed legislation restricting the use of hazardous substances in electrical and electronic products. This legislation, also known as the Restriction on Hazardous Substances (RoHS) directive, places restrictions on the use of lead, hexavalent chromium, cadmium, mercury, polybrominated biphenyl (PBB) and polybrominated diphenyl ethers (PBDE). In accordance to this directive, Grayhill's Components Division intends to achieve compliance by evaluating our materials and processes and making changes where necessary.

Products

Grayhill's Components Division designs, manufactures and markets switches (rotary, dip, push-button, toggle, rocker and slide), keypads and encoders (optical and mechanical). Due to strong customer demand, Grayhill's Components Division has chosen to initially focus on the conversion of the dip switch product line¹. This product line includes Grayhill Series 76, 76P, 78, 79, 90, 94. Details on the conversion of the remainder of "board level" products, which includes toggle, rocker, slide, tact and select push-button switches, will be published by November 1, 2004.

Compliant Product Phase-In Plan

Grayhill will phase-in compliant dip switches, on a part number by part number basis, as inventories of non-compliant materials deplete. The phase-in will begin Q1'05 and will include all standard, non-military style dip switches and custom dip switches².

Compliant Product Identification

A "T" will be added as a suffix to all standard dip switch part numbers. No changes to custom part numbers will be made. If a change in part number is desired, customers are urged to contact a Grayhill customer service agent and request a new part number.

Product Series	Description	Old Part Number Example (Tin-Lead Plating)	New Part Number Example (100% Tin Plating)
76	Rocker Actuated DIP Switch	76SB08S	76SB08ST
76P	Piano DIP Switch	76PSB08S	76PSB08ST
78	Slide Actuated DIP Switch	78B08S	78B08ST
79	Circuit Selector/Tap Switch	79A10	79A10T
90	Low Profile DIP Switch	90HBW08PR	90HBW08PRT
94	Rotary DIP Switch	94HAB08	94HAB08T

¹ The term "dip switch" used throughout this document refers to Grayhill Series 76, 76P, 78, 79, 90, and 94.

² Custom dip switches possess a custom part number that is denoted by a "YY" following the series designator (i.e. 76YY...).

Product Changes

Grayhill dip switches currently do not meet the requirements of the RoHS mandate due to the use of lead only. Lead is currently added to the switch as part of a tin / lead alloy used to plate the terminals. In order to comply with the requirements of the RoHS directive, the tin / lead terminal plating will be replaced with a pure matte tin over nickel (50 micro-inches minimum). Qualification testing was performed to verify resistance to tin-whisker growth, backward and forward process compatibility and tape-seal performance.