

PRODUCT ADVISORY NOTICE

KEEPING YOU INFORMED OF PRODUCT CHANGES

To: All Customers, Sales Representatives and Distributors

Date: June 28, 2023

Subject: SMT Optics conversion for 62C, 62N and 62R Series Optical Encoders

*This Product Advisory Notice is to alert you that Grayhill is converting from wire-bonded optics to SMT Optics for 62C, 62N and 62R Series Optical Encoders. **Please forward this notification to the appropriate person(s) in your organization.***

Description of Change

Grayhill currently uses die-and-wire bonded optics in the assembly of 62C, 62N, and 62R Optical Encoders. In order to improve production throughput, Grayhill will convert to surface mount technology optics for these series. This change includes the following:

- Replace wire bonded Three-Five Compounds TCD850 LED with SMT Kingbright APH1608-LM32 LED
- Replace wire bonded Opto Tech ST-0124 Phototransistor with SMT Three-Five Compounds TFE7-21/0124 Phototransistor
- Addition of Fairchild Semiconductor NC7WZ17P6X Dual Buffer with Schmitt Trigger
- Various resistor and capacitor changes in accordance with the changes above.

This change will result in the output circuit being changed from an Open Collector type to a Push-Pull type. In most applications the new surface mount optics encoder will work as a drop in replacement for the old die and wire bond version. However, in applications where the pull-up resistors on the encoder outputs are connected to a voltage different than the voltage on the power pin, the new surface mount optics encoder will not operate correctly and should not be used. An example of where the new surface mount optics encoder will not operate correctly is as follows: encoder power pin tied to 3.3V and output pull-up resistors tied to 5.0V.

Reason for Change

Grayhill's current wire bonding manufacturing equipment is nearing the end of its service life and is being replaced with SMT technology to prevent any future supply interruptions to our customers.

Effective Date

Production Orders after September 1, 2023 will begin transitioning to SMT optics once the in-process inventory of wire bonded optics are consumed.

Actions Required

None



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Part Numbers Affected

62C1111-01-020S	62C1522-02-055C	62C2222-02-P	62N11-050C
62C1111-01-030C	62C1530-02-P	62C2230-01-020C	62N11-060C
62C1111-01-040C	62C1818-01-P	62C2230-01-040C	62N11-065C
62C1111-01-040S	62C1818-02-P	62C2230-02-040C	62N11-070C
62C1111-01-060C	62C2211-01-020C	62C3011-01-020C	62N11-P
62C1111-01-060S	62C2211-01-040C	62C3011-01-020S	62N15-020C
62C1111-01-070C	62C2211-01-040S	62C3011-01-040C	62N15-040C
62C1111-01-080S	62C2211-01-060C	62C3011-02-040C	62N15-P
62C1111-01-100C	62C2211-02-020C	62C3011-02-060C	62N22-020C
62C1111-01-P	62C2211-02-020S	62C3015-02-040C	62N22-020S
62C1111-02-020C	62C2211-02-035C	62C3022-02-P	62N22-040CH
62C1111-02-020S	62C2211-02-040C	62C3030-01-040C	62N22-040S
62C1111-02-030C	62C2211-02-040S	62C3030-01-060S	62N22-060C
62C1111-02-040C	62C2211-02-060C	62C3030-01-P	62N22-110S
62C1111-02-040S	62C2211-02-P	62C3030-02-020C	62N22-P
62C1111-02-050C	62C2215-01-040C	62C3030-02-040S	62N30-020C
62C1111-02-050S	62C2215-01-040S	62C3030-02-060C	62N30-040CH
62C1111-02-060C	62C2215-02-040S	62C3030-02-P	62N30-040S
62C1111-02-060S	62C2215-02-060C	62CY1111009	62N30-P
62C1111-02-070C	62C2215-02-060S	62CY1111012	62NY11007
62C1111-02-075S	62C2215-02-080S	62CY1111017	62NY11015
62C1111-02-080S	62C2215-02-P	62CY1111038	62NY11016
62C1111-02-090C	62C2218-02-060C	62CY1515016	62NY15006
62C1111-02-100C	62C2222-01-020C	62CY1522001	62NY15006-1
62C1111-02-100S	62C2222-01-025C	62CY1818001	62NY15009
62C1111-02-250S	62C2222-01-030S	62CY1818002	62NY22004
62C1111-02-P	62C2222-01-035C	62CY2215004	62NY22005
62C1115-01-060C	62C2222-01-035S	62CY2215008	62R15-01-040S
62C1122-01-020C	62C2222-01-040C	62CY2222012	62R15-01-P
62C1122-01-060C	62C2222-01-040S	62CY2222019	62R15-02-030C
62C1122-01-P	62C2222-01-050C	62CY2222026	62R15-02-040C
62C1122-02-020C	62C2222-01-060C	62CY2222030	62R15-02-P
62C1122-02-040C	62C2222-01-080C	62CY2222037	62R22-01-020S
62C1122-02-060C	62C2222-01-080S	62CY2222043	62R22-01-030C
62C1130-02-040C	62C2222-01-120S	62CY2222059	62R22-01-040C
62C1515-01-020C	62C2222-01-125C	62CY2222063	62R22-01-040S
62C1515-01-035C	62C2222-01-250C	62CY2222072	62R22-01-P
62C1515-01-050C	62C2222-01-P	62CY2222073	62R22-02-020C
62C1515-01-100S	62C2222-02-020C	62CY2222076	62R22-02-040C
62C1515-01-P	62C2222-02-020S	62CY2222082	62R22-02-040S
62C1515-02-020C	62C2222-02-030C	62CY2222083	62R22-02-120C
62C1515-02-020S	62C2222-02-040C	62CY3018001	62R22-02-P
62C1515-02-030C	62C2222-02-040S	62N02-P	62R30-01-040S
62C1515-02-035C	62C2222-02-060C	62N11-020C	62R30-01-P
62C1515-02-040C	62C2222-02-060S	62N11-020CH	62RY22002
62C1515-02-060C	62C2222-02-080S	62N11-020S	
62C1515-02-060S	62C2222-02-100C	62N11-020SH	
62C1515-02-P	62C2222-02-120C	62N11-040C	
62C1522-01-020C	62C2222-02-120S	62N11-040CH	
62C1522-02-020C	62C2222-02-160S	62N11-040S	

