

**DC Drive  
Configuration Template  
MBARI 5580CFG-1.10**

**M B A R I**



**Board Serial Number:**\_\_\_\_\_ **Board Revision Number:**\_\_\_\_\_

**Date**\_\_\_\_\_ **Engineer** \_\_\_\_\_ **Technician** \_\_\_\_\_

**Application for this configuration** \_\_OASIS Shutter drive\_\_

**Motor Power Supply:** **Voltage**\_\_10V-15V\_\_\_\_ **Current (peak)** \_\_2A startup surge\_\_\_\_\_

**Module Power Supply:** **Voltage**\_\_10V-15V \_\_\_\_ **Source, J1** jump **W2 1-2** <or> **J3** jump **W2 2-3**

**Local Regulation:** **Yes, W1 1-2 and W3 2-3** <or> **No, W1 open and W3 1-2**

**PWM input:** **Active Hi** **W4 1-2** <or> **Active Lo** **W4 2-3**

**Direction Input:** “**A**” output follows input, **W5 1-2** <or> “**B**” output follows input, **W5 2-3**

**Feedback Pot configuration:** **2 wire W6 2-3, W7 2-3** <or> **3 wire W6 1-2, W7 1-2**

**Feedback amp non standard comp values..?** **R27**\_\_51.1W\_\_ **R29**\_\_200W\_\_ **R30**\_\_NA\_\_ **R31**\_\_NA\_\_

**TP2 output:** \_\_2.49\_\_\_\_\_ **Volts at** \_\_2879\_\_\_\_\_ **Ohms**

**Overcurrent detector setup:** **Gain at TP3**\_\_~1.0\_Amps/Volt\_\_ **R28**\_\_0.1W\_\_ **R3**\_\_1K\_\_ **R4**\_\_9.09K\_\_

**Overcurrent detector time constant:** \_\_~40mS\_\_\_\_\_ **R17**\_\_200K\_\_ **C4**\_\_0.22uf\_\_

**Set Overcurrent trip to:** \_\_0.5\_\_\_\_\_ **Amps**

**Filtered current output:** **Gain at TP4**\_\_NA\_\_ **Amps/Volt** **Rolloff (3db)**\_\_NA\_\_ **Hz**

**R24**\_\_NA\_\_\_\_\_ **R25**\_\_NA\_\_\_\_\_ **C9**\_\_NA\_\_\_\_\_

**Transient Supressor D4:** \_\_15V working\_\_ **Volts, Part Number**\_\_SMBJ15A\_\_ *General Instrument*

**Connector types:** **J1**\_\_0.25 sq pins, bottom, 0.25”\_\_\_\_\_ **J2**\_\_0.25 sq pins, bottom, 0.25”\_\_\_\_\_

**J3**\_\_0.25 sq pins, bottom, 0.25”\_ **J4**\_\_0.25 sq pins, bottom, 0.25”\_ **J5**\_\_0.25 sq pins, bottom, 0.25”\_

**Notes:**

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**END**

