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| AUTHOR(S) | **DATE** | **Document Change Notice, Release or Approval** |
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# Overview

This document describes the procurement for custom polished silicon optics. This document provides context and a general overview of the custom optics but, in order to avoid duplication of information, **all specific details can only be found in the linked documents**.

# Quantities required

We require the following custom silicon optics:

* 3x “Type 1 – ITM” optics: Float Zone silicon, per D2100536-v6
* 3x “Type 2 – ETM” optics: Magnetic Czochralski silicon, per D2100536-v6

Both types are per the specifications provided below and in linked documents

# General specifications

The Mariner 40m test masses are illustrated in the following cartoon. There are two types: Type 1 are designated ITM and Type 2 are designated ETM.



Front surface

(ETM-curved)

(ITM-flat)

The features enumerated in the figure call out the following specifications:

1. The silicon optic substrate material as specified in document: D2100536-v6, will be provided by the customer.
2. The vendor will cut the material per the dimensions specified in the drawing: D2100536-v6.
3. The vendor will polish all surfaces per the specifications provided in:
   1. Type 1 – ITM: E2100299-v5
   2. Type 2 – ETM: E2100296-v5