## **Advanced LIGO Engineering Change Request (ECR)**

ECR: Modifications to the common mode boards of the squeezer		DCC No: E1800075-v1
		Date: 3/22/2018
Requester: Daniel Sigg Impacted Subsystem(s):		SQZ
Description of Proposed Change(s): Implement <u>E1800074</u> .		
Reason for Change(s): Fix the common generic filter and add a notch for the SHG/OPO PZT resonances.		
Estimated Cost: ~1500\$		
Schedule Impact Estimate: small		
Nature of Change (check all that apply):  ☐ Hardware Safety ☐ Correct Hardware ☐ Correct Documentation	<ul><li>☑ Improve Hardw</li><li>☐ Improve/Clarify</li><li>☐ Change Interfact</li><li>☐ Change Require</li></ul>	V Documentation ce
Importance:  Desirable for ease of use, maintenance, safety Desirable for improved performance, reliability Essential for performance, reliability Essential for function Essential for hardware safety	Urgency:  ☐ No urgency ☐ Desirable by dat ☐ Essential by dat ☑ Immediately (A)	e/event:
Impacted Hardware (select all that apply):  ☐ Repair/Modify. List part & SNs:	<b>Impacted Documentation</b> (list all dwgs, design reports, test reports, specifications, etc.): <u>D040180</u> , <u>D1000798</u> , <u>T1800112</u>	
Scrap & Replace. List part & SNs:		
☐ Installed units? List IFO, part & SNs:		
☐ Future units to be built		

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## **Disposition of the proposed change(s):**

The disposition of this proposed engineering change request is to be completed by Systems Engineering and indicated in the "Notes and Changes" metadata field in the DCC entry for this ECR. The typical dispositions are as follows:

- <u>Additional Information Required</u>: in which case the additional information requested is defined. The ECR requester then re-submits the ECR with the new information using the same DCC number for the ECR but with the next version number.
- Rejected: in which case the reason(s) for the rejection are to be given
- Approved
- Approved with Caveat(s): in which case the caveat(s) are listed
- TRB: the ECR is referred to an ad-hoc Technical Review Board for further evaluation and recommendation. It is the System Engineer's (or designee's) responsibility to organize the TRB. The System Engineer (or designee) then makes a technical decision based on the TRB's recommendation. Links to the TRB's documentation (charge, memos, final report, etc.) are to be added to the "Related Documents" field for this ECR.
- <u>CCB</u>: a change request for approval of additional funds or schedule impact is to be submitted to the Configuration Control Board. Links to the CCB's documentation (CR, etc.) are to be added to the "Related Documents" field for this ECR.

## **Concurrence by Project Management:**

Acknowledgement/acceptance/approval of the disposition is to be indicated by the electronic "signature" feature in the DCC entry for this ECR, by one the following personnel:

- Systems Scientist
- Systems Engineer
- Deputy Systems Engineer