

# EXHIBIT 12

Nos. 2020-2222, 2021-1527

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**UNITED STATES COURT OF APPEALS  
FOR THE FEDERAL CIRCUIT**

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THE CALIFORNIA INSTITUTE OF TECHNOLOGY,

*Plaintiff-Appellee,*

v.

BROADCOM LIMITED, nka Broadcom Inc., BROADCOM CORPORATION,  
AVAGO TECHNOLOGIES LIMITED, nka Avago Technologies International  
Sales Pte. Limited, APPLE INC.,

*Defendants-Appellants.*

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On Appeal from the United States District Court for the Central District of  
California in Case No. 2:16-cv-03714-GW-AGR, Judge George H. Wu

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**NON-CONFIDENTIAL JOINT APPENDIX VOLUME I OF IV  
(Appx1-Appx2390)**

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