

### INTRODUCTION

Exar has designed adaptor boards which allow Exar's AFE video chips to substitute for alternate vendor's AFE products. This allows quick and easy evaluation of the XRD98L59 in existing DSC's and Camcorders. The XRD98L59 CAM AD9843 EVAL is a design module that solders directly into the PCB footprint of the AD9843. Figure 1. shows the surface mount adaptor which solders to the PCB footprint, and the EXAR Adaptor Board which plugs into the backend of the surface mount adaptor. Figure 2. is a picture of the surface mount adaptor plugged into the EXAR Adaptor Board.

### PROCEDURE

1. Solder the 48-pin surface mount adaptor to the AD9843 PCB footprint in the DSC or Camcorder.
2. Plug the EXAR Adaptor Board into the backend of the surface mount adaptor using the four mounting screws provided.
3. Once the surface mount adaptor has been soldered, the XRD9861 can also be easily evaluated by plugging in a XRD9861 adaptor board. The XRD98L59 and XRD9861 adaptor boards are interchangeable. See the Ordering Information Section.

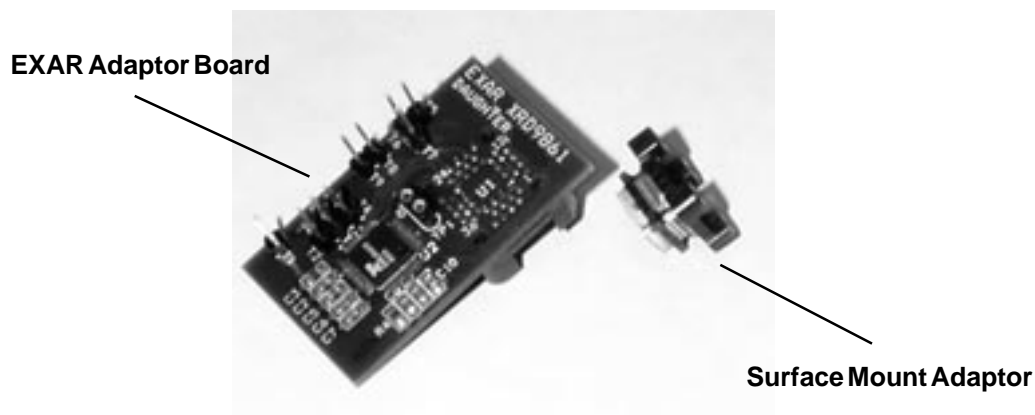


Figure 1. Exar Adaptor Board and Surface Mount Adaptor

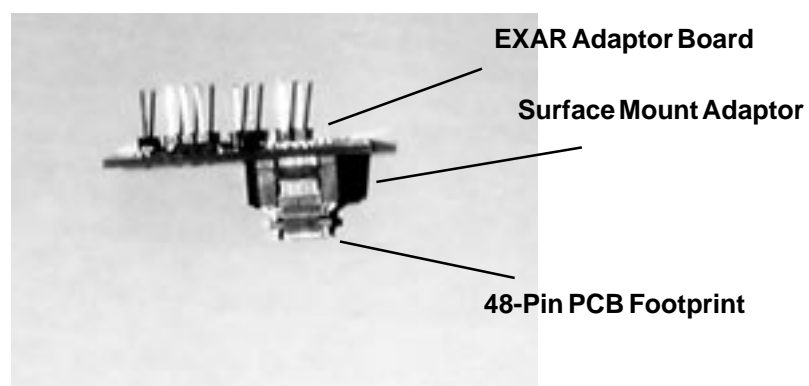


Figure 2. Side View, Surface Mount Adaptor Plugged Into the Exar Adaptor Board



Figure 3. Timing Board One EVAL (Serial Port Programming Board, Ordered Separately) Connected to the Exar Adaptor Board Which Programs the Serial Port of the XRD98L59

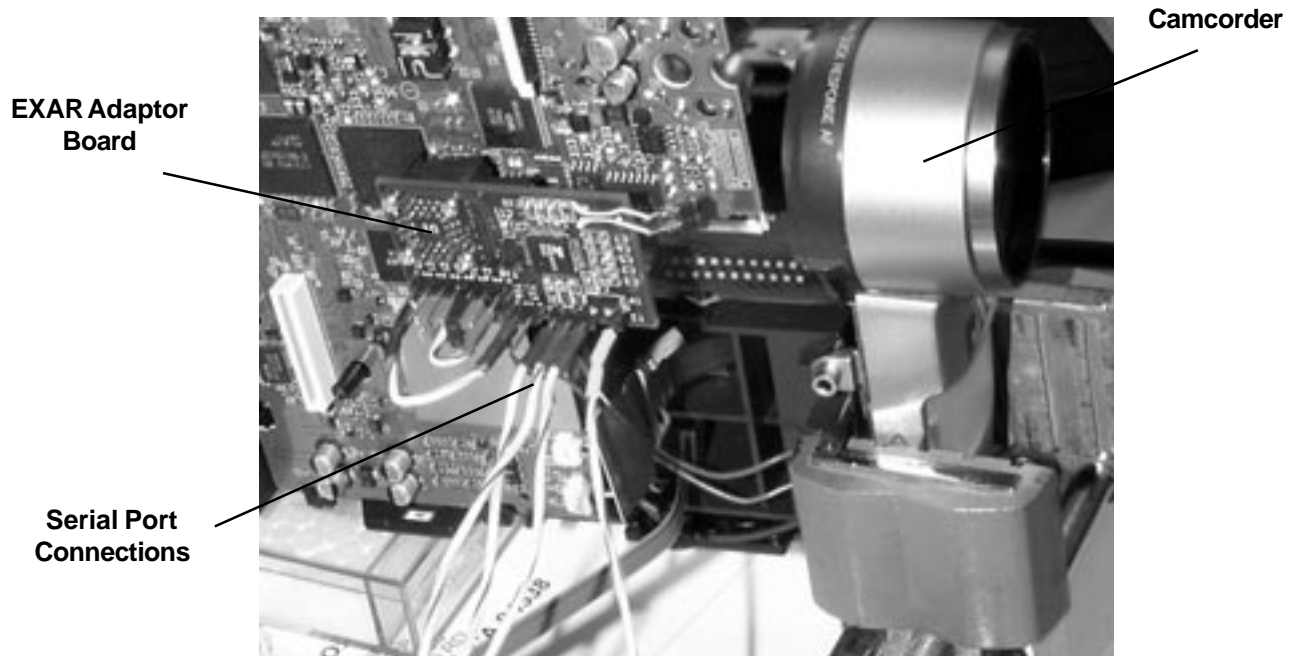


Figure 4. Exar Adaptor Board Inserted Into the Camcorder with the Serial Port Connections Shown

**Note:**

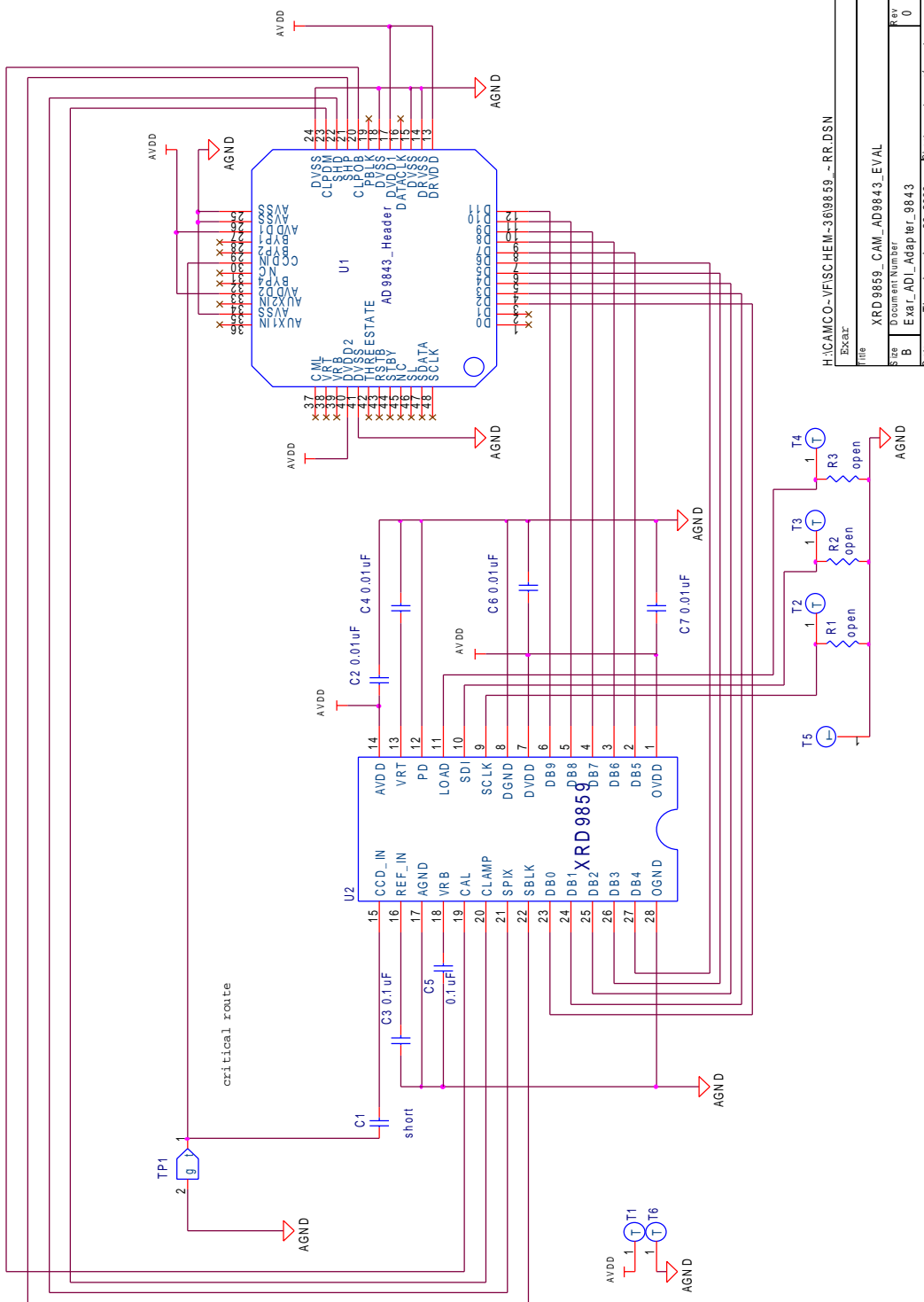
*Input capacitor C3 for REF\_IN (See schematic on page 4) to the XRD98L59 must match the value for the CCD\_IN capacitor (Pin 15 on the XRD98L59).*

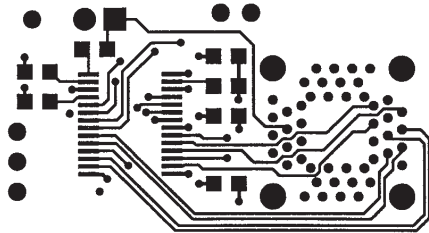
## ORDERING INFORMATION

- Timing Board One EVAL (Serial Port Programming Board)
- XRD98L59 CAM AD9803 EVAL (Analog Devices Adaptor AD9803)
- XRD98L59 CAM AD9843 EVAL (Analog Devices Adaptor AD9843)
- XRD98L59 CAM HD49323a EVAL (Hitachi Adaptor HD49323a)
- XRD98L59 CAM VSP2210 EVAL (Burr-Brown Adaptor VSP2210)
- XRD9861 CAM AD9803 EVAL (Analog Devices Adaptor AD9803)
- XRD9861 CAM AD9843 EVAL (Analog Devices Adaptor AD9843)
- XRD9861 CAM HD49323a EVAL (Hitachi Adaptor HD49323a)
- XRD9861 CAM VSP2212 EVAL (Burr-Brown Adaptor VSP2212)

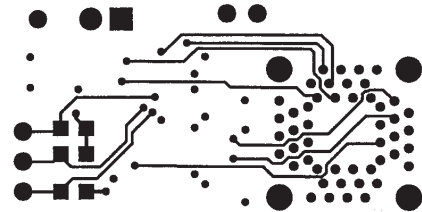
*Note: All adaptor boards are for a 48 Pin QFP package of the alternate vendor.*

# XRD98L59 CAM AD9843 EVAL

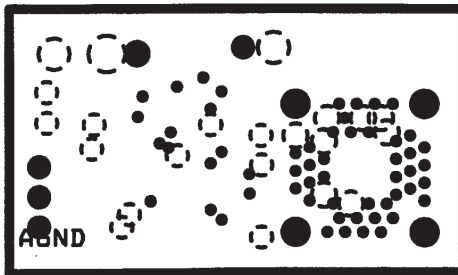




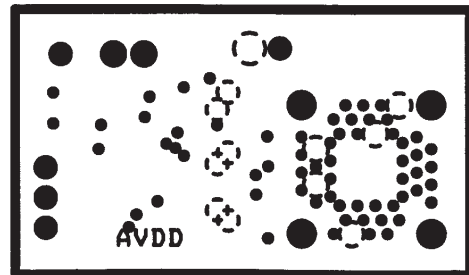
**TOP LAYER**



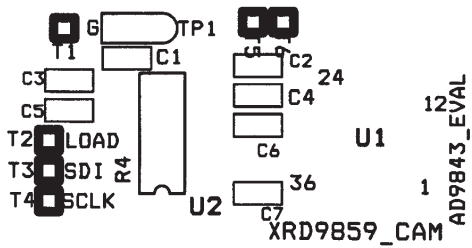
**BOTTOM LAYER**



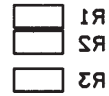
**GROUND PLANE**



**POWER PLANE**



TOP SILK SCREEN



BOTTOM SILK SCREEN



## **Notes**



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