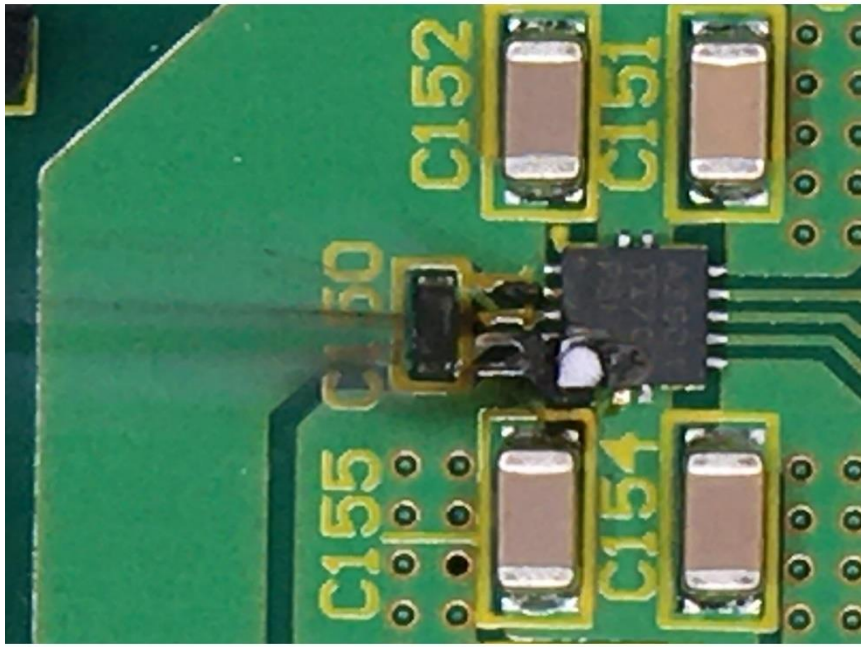

Figure 1

The TPS7A3901 is used to supply power to the operational amplifier. When the power supply of Vin- = -15.6V of TPS7A3901 is applied, it is ignited. Please tell me the reason why it ignites.

TPS7A3901 specifications
・Vin+＝15.6V　VoutP=15V　0.15A(max)
　Vin-＝-15.6V　VoutN=-15V　0.15A(max)
　Connected to: OP-AMP power supply
・Vin+、Vin- Supply destination：General-purpose power unit(COSEL ACE series)

phenomenon
When the power was turned on from the destination (power unit), it ignited and the package melted as shown in the photo.

Place of ignition：INNpin

This phenomenon is occurring in 2 of 100 created.
System (1 power unit → TPS7A3901 4 units connected in parallel.)

COSEL：ACE series

AC6-KHVWM

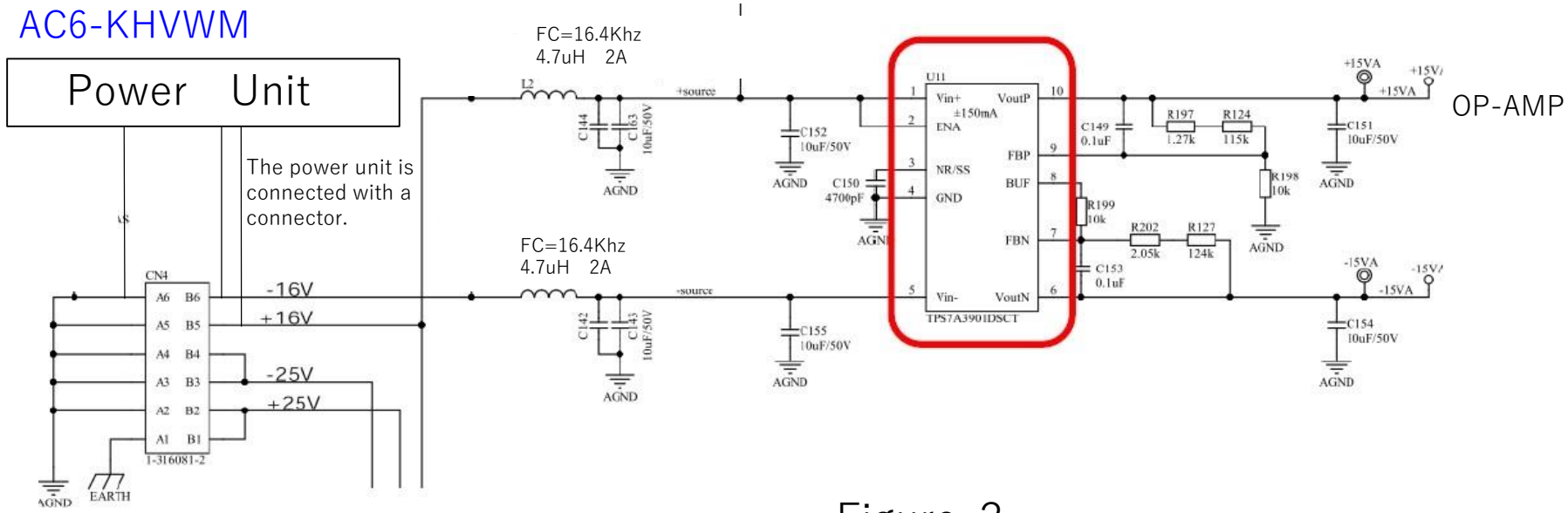

Figure 2

The circuit is shown in Figure 2.

Power-on procedure

- Adjust the power unit voltage to ± 15.0 to ± 15.6V before connecting CN4.
- Power off
- CN4 connector connection
- Power on
- Ignite after a while. (An alarm has occurred. The voltage monitoring IC monitors -15VA.)