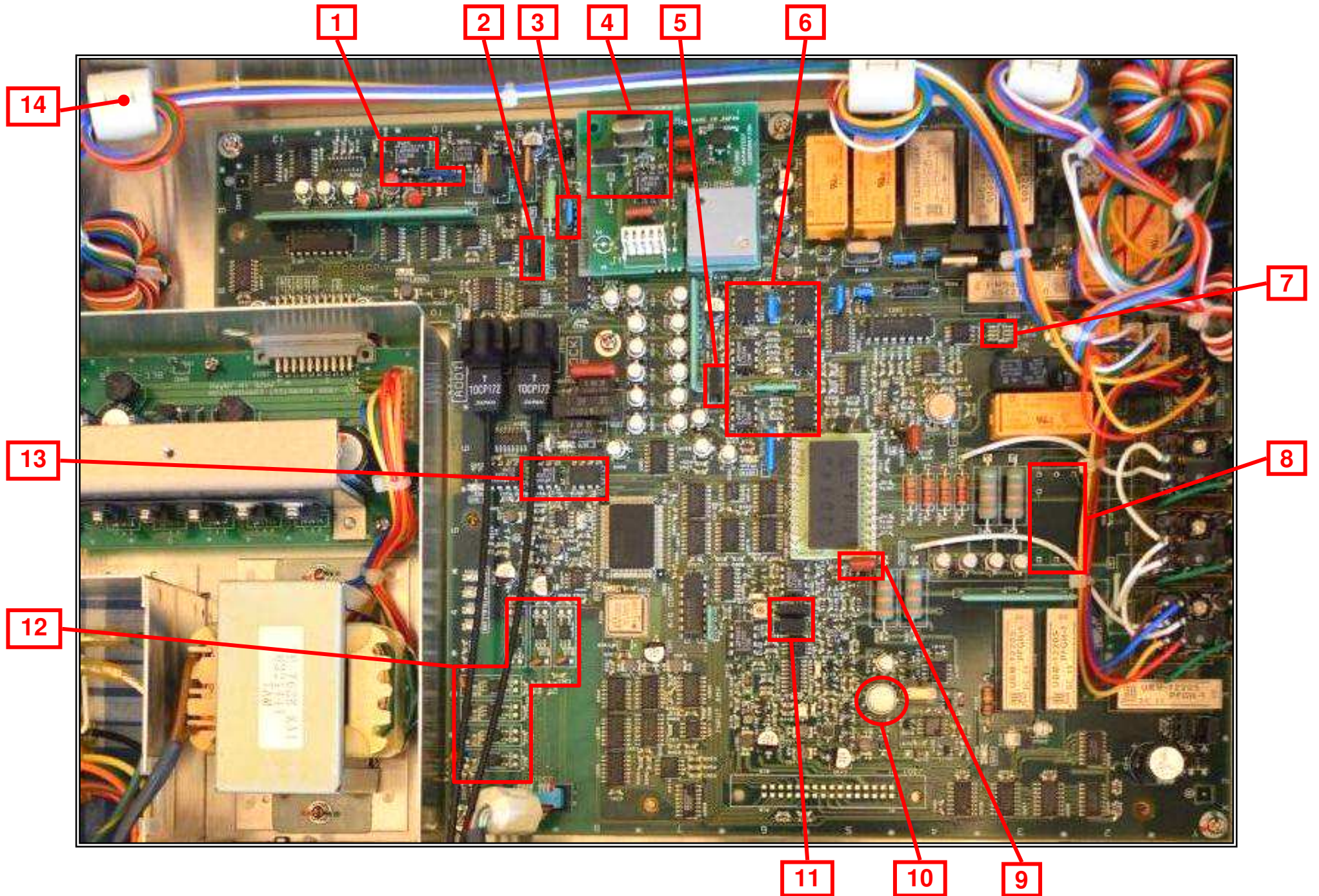


Evolution of Advantest/ADCMT (R)6581(D,T)

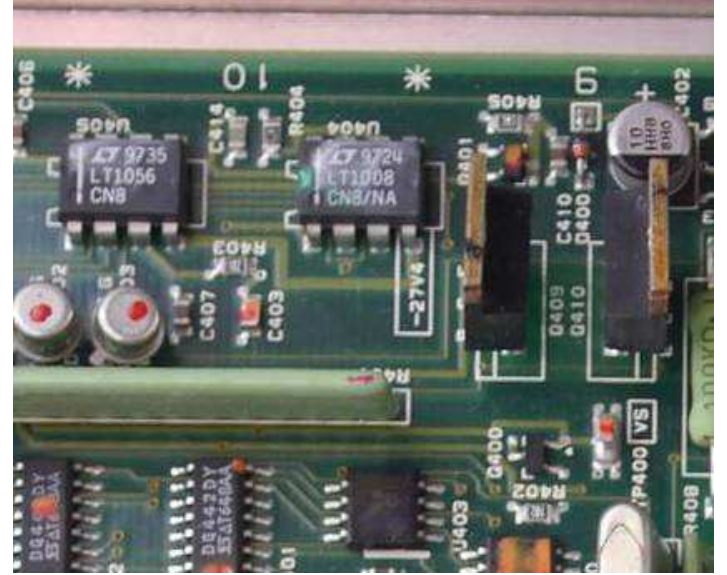


1 Ohms Current Source op amp

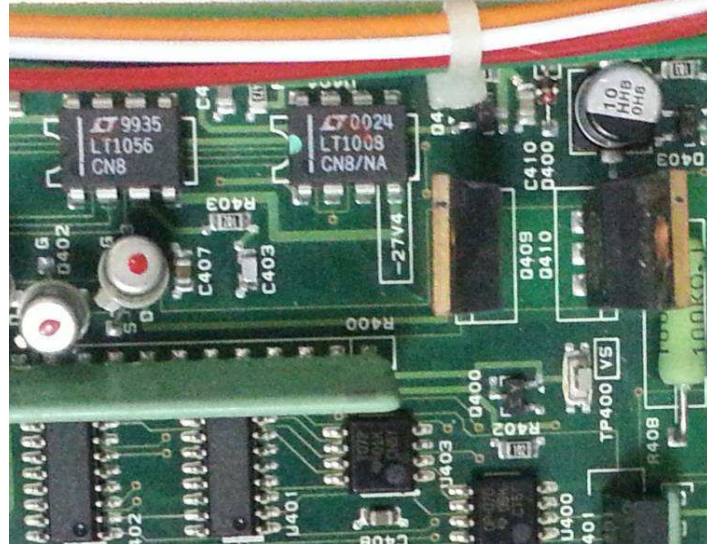
1995



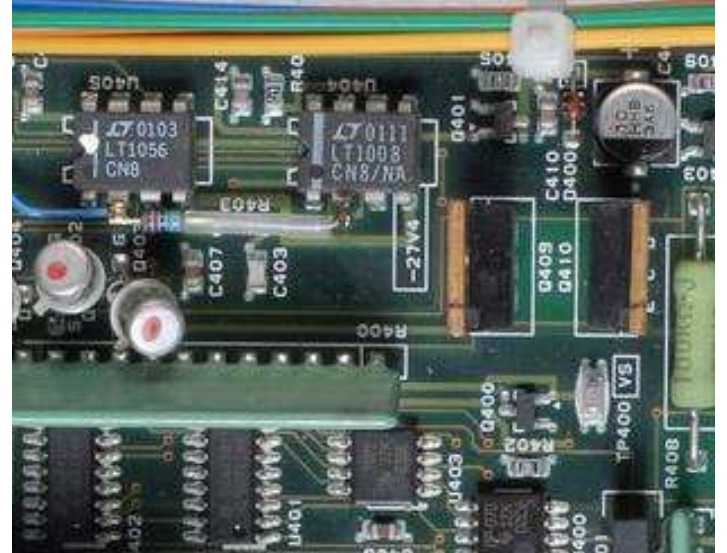
1998



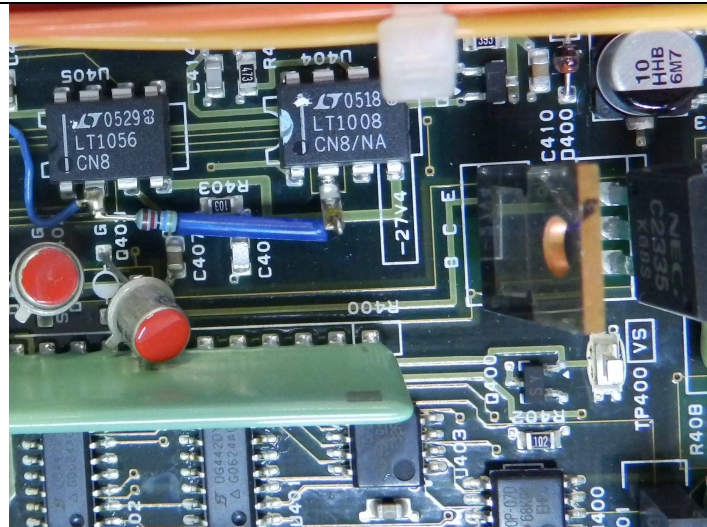
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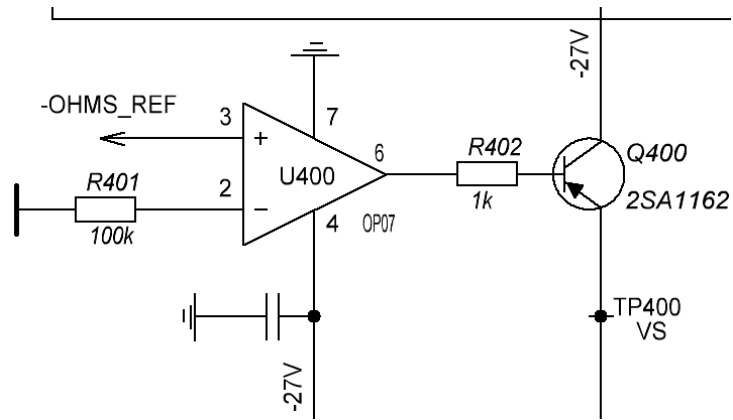
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2006

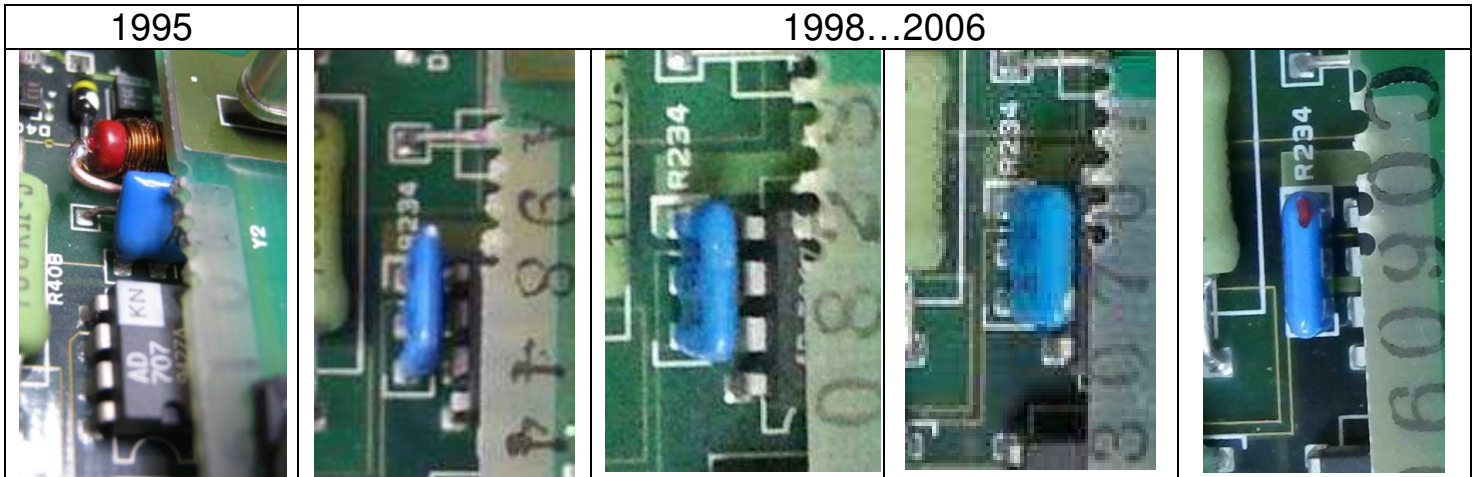
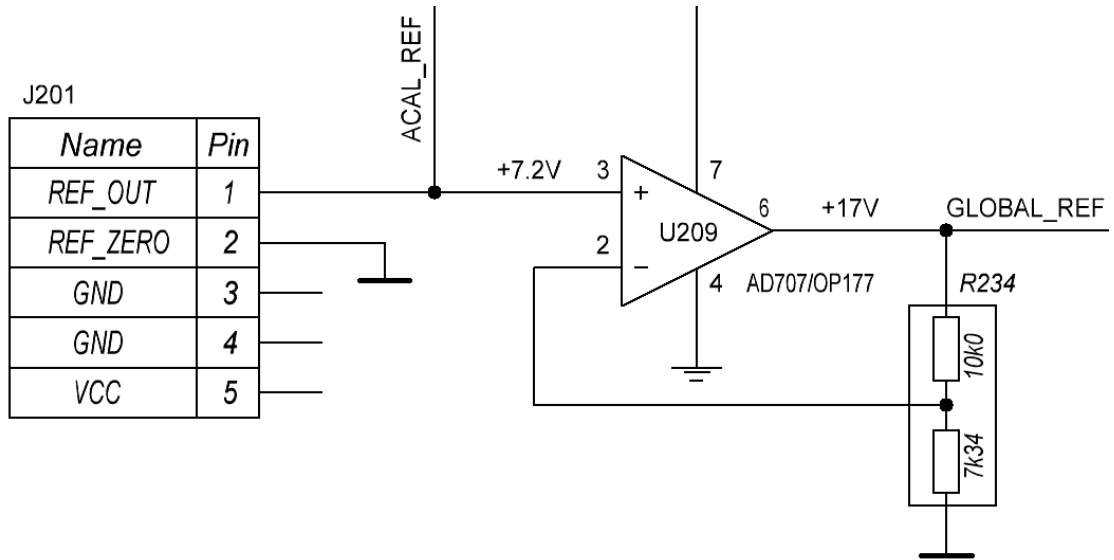


2 Ohms Current Source setting resistor R401 100k



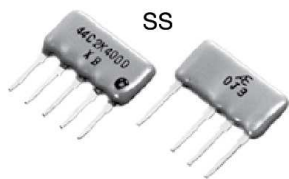
1995	1998	2000	2003	2006																					
<p> Alpha Electronics</p> <p>HD</p> <table border="1"> <thead> <tr> <th>Type</th> <th>TCR (ppm/°C) -55°C to +125°C*</th> <th>Resistance Range (Ω)</th> </tr> </thead> <tbody> <tr> <td>HD</td> <td>0±2.5 (Y)</td> <td>30 to 120k</td> </tr> </tbody> </table> <p>Moisture Resistance ±0.0025% Storage Life ±0.0005% / 10,000 hrs. Thermal EMF 0.1 μV/°C</p>		Type	TCR (ppm/°C) -55°C to +125°C*	Resistance Range (Ω)	HD	0±2.5 (Y)	30 to 120k	<p> Alpha Electronics</p> <p>MC</p> <table border="1"> <thead> <tr> <th colspan="5">TCR, RESISTANCE RANGE, TOLERANCE, RATED POWER</th> </tr> <tr> <th>Type</th> <th>TCR (ppm/°C) -55°C to +125°C*</th> <th>Resistance Range (Ω)</th> <th>Resistance Tolerance (%)†</th> <th>Rated Power (W) at 125°C</th> </tr> </thead> <tbody> <tr> <td>MC</td> <td>0±2.5 (Y)</td> <td>30 to 200k</td> <td>±0.005 (V) ±0.01 (T) ±0.02 (Q) ±0.05 (A) ±0.1 (B) ±0.5 (D) ±1 (F)</td> <td>0.3 (0.2 at 150 kΩ or above)</td> </tr> </tbody> </table> <p>Moisture Resistance ±0.01% Storage Life ±0.0025% / 10,000 hrs. Thermal EMF 1.0 μV/°C</p>			TCR, RESISTANCE RANGE, TOLERANCE, RATED POWER					Type	TCR (ppm/°C) -55°C to +125°C*	Resistance Range (Ω)	Resistance Tolerance (%)†	Rated Power (W) at 125°C	MC	0±2.5 (Y)	30 to 200k	±0.005 (V) ±0.01 (T) ±0.02 (Q) ±0.05 (A) ±0.1 (B) ±0.5 (D) ±1 (F)	0.3 (0.2 at 150 kΩ or above)
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3 Voltage Reference amplifier 7.2 → 17V



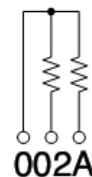
Alpha Electronics

Precision Resistor Network (conformally coated)



**Circuit A
(Array)**

Circuit Symbol



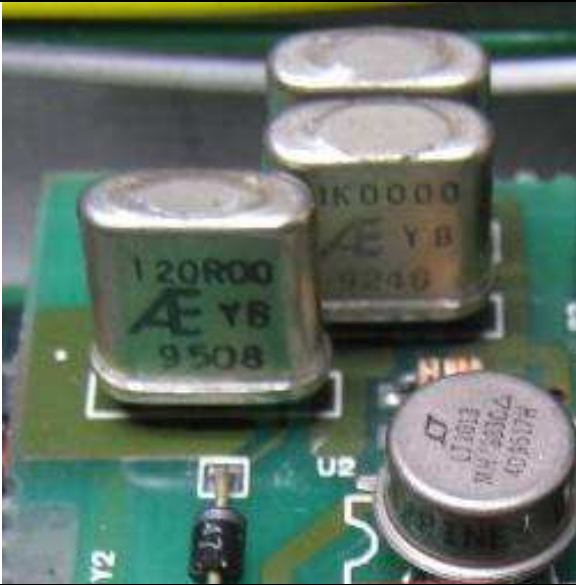
002A

TABLE 1. TEMPERATURE CHARACTERISTICS OF RESISTANCE

TCR (ppm/°C) -25°C to +125°C		
Absolute	Tracking	
	Resistance Ratio (R max./R min.)	TCR Tracking Available
0±5	1 ≤ R max./R min. ≤ 10	±1
	10 < R max./R min. ≤ 100	±2
	100 < R max./R min.	±3

4 Voltage Reference module

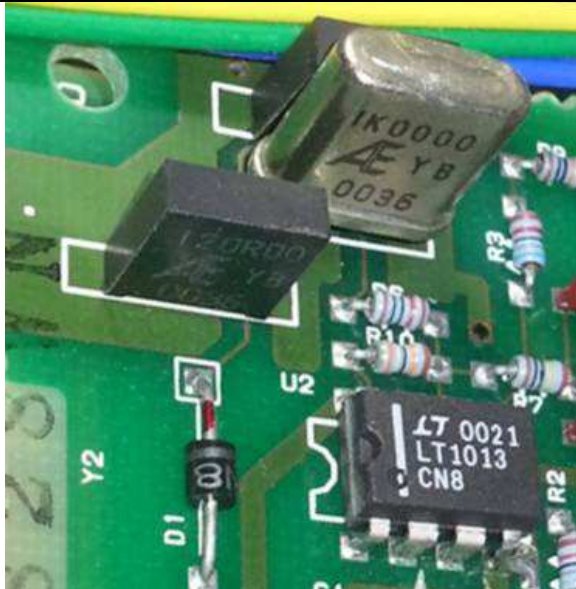
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1998



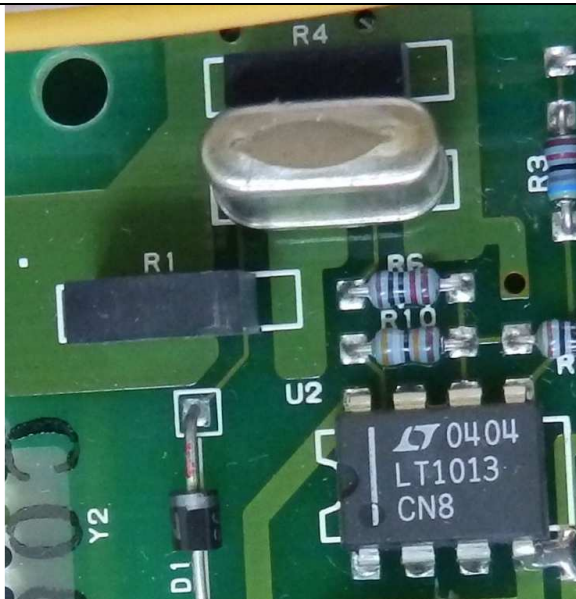
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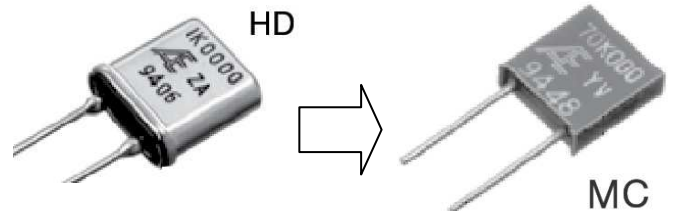
2003



2006



 Alpha Electronics



LT1013MH → LT1013CN8