

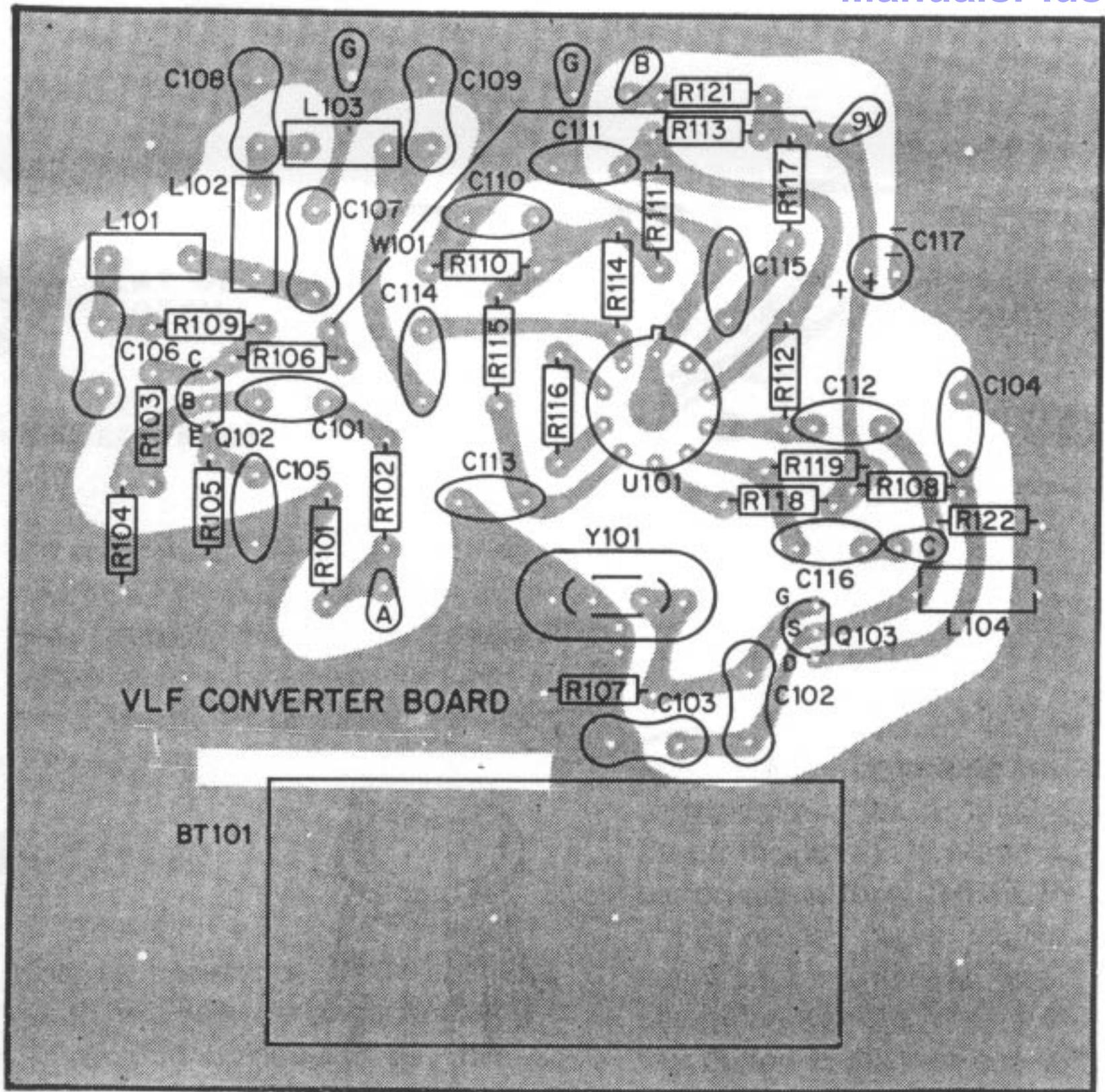
**SCHEMATIC OF THE  
HEATHKIT  
VLF CONVERTER  
MODEL HD-1420**

**NOTES:**

1. All resistors are rated at 1/4-watt, and have a 5% tolerance unless otherwise noted (K = 1000).
2. Capacitor values less than 1 are in  $\mu\text{F}$  (microfarads); those 1 or greater are in pF (picofarads), unless otherwise noted.
3. The following symbols are used on this schematic diagram:

-  Circuit board ground.
-  Chassis ground.
-  Circuit board wire connection.
-  DC voltage reading taken with a high input impedance voltmeter from the point indicated to chassis ground. Voltages may vary  $\pm 10\%$ .

4. Switch SW1 is shown in the "on" position.
5. Refer to the "Circuit Board X-Ray View" on Manual Page 23 for the physical locations of parts.



(Shown from the component side.)

## SEMICONDUCTOR IDENTIFICATION

<u>COMPONENT NUMBER</u>	<u>HEATH PART NUMBER</u>	<u>MAY BE REPLACED WITH</u>	<u>KEY NUMBER</u>
<b>DIODE</b>			
D101	412-633	5082-4484	A1
<b>TRANSISTORS</b>			
Q102	417-169	MPF105	A2
Q103	417-875	2N3904	A3
<b>INTEGRATED CIRCUIT</b>			
U101	442-96	MC1496G	A4

