

HP 10544A and 10811A OCXOs — connections and differences:

Hold osc with PC fingers pointing down, at the far side of the oscillator. Pin numbering left to right:

- 1 10 MHz Output
- 2 10 MHz Return (Gnd)
- 3 +12 volt Oscillator Supply
- 4 +12 volt Return (Gnd)
- 5 EFC return (Gnd)
- 6 EFC (-5 to +5v) (ground for no EFC)
- 7 **(no connection)**
- 8 +12 volts Oven Control (10544 only)
(if using pin 3 supply, filter to keep noise from pin 8 out of pin 3)
- 9 Oven Control return (Gnd) (10544 only)
- 10 **(no connection)**
- 11 Oven Monitor (see manuals) (near Oven + voltage at turn-on, drops to ~ 3.5v when warm)
- 12 **(no connection)**
- 13 **(no connection)**
- 14 +24 volts Oven Heater supply (500 mA max at 25v)
- 15 Oven Heater return (Gnd)

IMPORTANT: The oven on the HP10544 will not turn on without +12v to pin 8 (just a couple of mA from pin 8 to pin 9). Without this, the unit will not warm up (acts just like a broken oven). Note that the oven control circuit needs a current return to the oven supply, so either pins 8 and 14 or pins 9 and 15 need to be connected (i.e, the oven control voltage on pin 8 needs to be referred to the oven supply). If the +12v oscillator supply (pin 3) is used for oven control, the oven return must be connected to the 12v return (pin 4).

