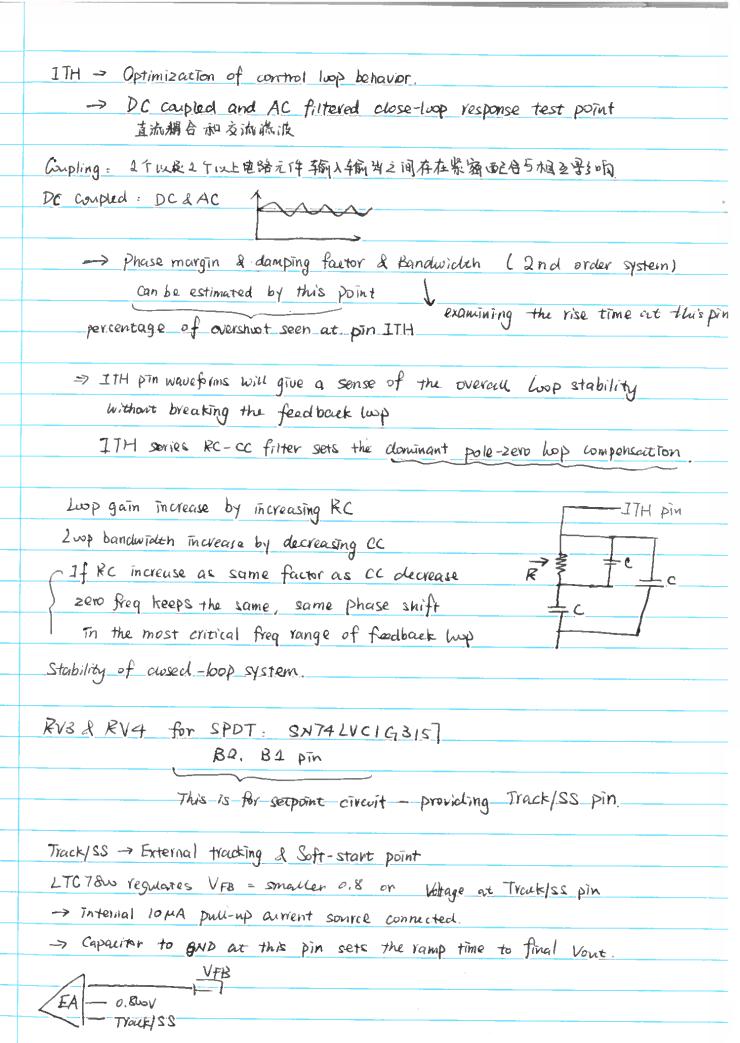
2022/06/17
RV1 - puteucionmeter — adjustable resistor
- treg pin - resistor - GND
determine frequency (switches) 320 kHz N 2,25MHz
RV2 - ITH pin. VEB = 0.8V REQUERCY (SWITCHES) Vaut + VB = 1.8V
VFB = 0.8V R +B
$V_{FB} = 0.8V$ $(0.8V)$ R
(RA + 1) - KA + KB × 0.8 = Voict
VFB: Regulated Feedbook Voltage
ITH VO Hage =1.2V
At LTC78w is tested in a feedback loop that serves VITH to
a specified voltage and measures, the resultant VFB
Pin 8 = 1TH = Error Amplifier Outputs and Switching Regulator Compensation
Point, The arment comparagor trip point increases with this control
rottage
Main Control Luop.
-> Convert mode step-down architecture
Top MOSFET on - RS latch (clock)
off - main convent comparator ICMP resets RS latch
the peak inductor current and resets the latch is controlled by ILH pin
august of EA error complifier
Compare signal at VFB
and internal 0,800 V reference
If load current \ VFB \ come to less current from in this branch)
Thus VFB < reforence 0.800 V
EA increases 17H voltage until the average inductor current matches the
hew load aiment



Shutdoon & Start-Up RUN < 1.64 shuds down the main control loop <0.74 disable controller and internal circuit. RUN = 8V. (absolut max rating of) < IWHA internal 11 v voltage clamp 2) Stant-up-of-controller's adjust voltage Vout is controlled by Track/SS pin 1 Vss < 0,8 internal reference > VFB = Vss instead of 0.8 V @ Vss - Capacitor (external) SS - Cap - SGND => Soft-stant long interact Pull-up arment. Vss from OV to 0.8V gradually (or 5V) Vant from OV to final value 3 Vac track another supply. SS - another external resister divider from another supply to GNO Total soft start time = tos = Cos: 0.8V 3 Vont Track Vx Ktrack A + Ktrack B Vont Rationettic tracking \$ RIA Coincident tracking => RA = RTrack_A RB = KTrack_B