	Inductor
+	2022/06/15 L DCR
_	Page 14 of LTC 7800 tells about "SENSE" + mm m
_	DCR: I Industor DC Vesistance
	IND GENERAL SERSING SCHEMES Y
	Low value resistance sensing
	ILIM - tri-level logic input => sets the max current limit of the controller.
	1 LIM grounded - threshold voltage of the current comparator - 30mV
	DILIM is floated - 75mV Vsense (max)
	3 ILLM is INTVec - 50 mV
	Sense & Sense = Cunurt comparator
	Common made voltage range ov N 28V (abs max)
	enabling the LIC78W regulator Vant = 24V nominal.
	Sense + -> High Impedance, low current + 1 MA
	sense → < INTVCL -asv current < 1µA
	> INTVec + 0,5V convent ~ 700 µA
	INTVac-0.5V> > INTVac+0.5U convent put ~ TwpA.
	Research for low resistance sensing - chosen loased on required output current
	Vsense (max) = Comparator max. & threshold rollage
	Project Definition
	Preparatory task
	Main task
	Siene of for extension
	Backgrand knowledge. Mission Statement
	Resairse.
	Reference (主要资料)
	$\Lambda \Omega 1 \subseteq \Gamma \subseteq \Gamma \subseteq \Gamma \setminus \{A, A, A$

	# Low Value Resistor Current Sensing Rosense → bassed on required output current
	The current compayed or has a max threshold Vence (max)
_	Reserve = $\frac{V_{\text{sense (max)}}}{I_{\text{max}} + \frac{4I_L}{2}}$ The current comparator has a max threshold $V_{\text{sense (max)}}$
	Vsense (max) Sets IL peak $\rightarrow 1$ max = $\frac{1}{2}$ peak $-\frac{1}{2}$ all
	30mV 50mV, 75mV.
·	A Industry PCR sensing CHeavy load)
	Tor appilications requiring highest & efficiency at high load current
	Because for high current, sense resistor will cost several points of efficiency
	if (R111R2). C1 time constant = DCR (satisfied)
	thms Vc1 = Voca inclusor × R+ K2
	Using includor ripple arrent value, the target sense resistor value
	Rsense (equivalent) = Vsense (max)
	IMAX + ATL
	Rense (equivulant) DCRmax at TLCmax)
	DCRmax at TLCmax)
	Ci = 0.14 FN 0.474 F RIII Rz around 2 k.
	RI -> /Max power loss in RI is related to duty cycle.
	AT THE POWER (055 /N K) IS RETAILED TO CAME COOK
	And tradein work in an over complier to Direction the convert voltage
	Sense: - a technique used in power supplies to produce the correct voltage
	for a load cwiki)
	Vsense = output voltage over land?
	Rleadt V+
	V+ Some restance &
	V- Rlead & Load sense
	V
	power supply without sense
	power supply with sense connection
	gense - a measurement of the voltage at the resistor
	no current flow in the sense wires because of high input resistance
	without having impact (no collage drop since no current)
	Control V+, V- power supply [Feedback]

$$(\frac{499}{82} + 1) \times 0.8 = 5.668 \text{ Not } 6.2 \text{ Vontput } / \text{my simulation } \frac{589}{82}$$

$$\frac{\chi}{82} + 1 = \frac{3.3}{0.8}$$

$$\chi = (\frac{3.3}{9.8} - 1) \times 82 = 256.25$$

ignore_Lispice_simulation_different.

