ELECTRICAL CHARACTERISTICS LM78XXC(1)

0 °C ≤T_{.1} ≤125 °C unless otherwise noted. **Output Voltage**

Quiescent Current

IQ

Input Voltage (unless otherwise noted)					10V			19V			23V		
Symbol	Parameter	Conditions		Min	Тур	Max	Min	Тур	Max	Min	Тур	Max	
Vo	Output Voltage	Tj = 25°C, 5 mA ≤I _O ≤1A		4.8	5	5.2	11.5	12	12.5	14.4	15	15.6	٧
		$P_D \le 15W$, 5 mA $\le I_O \le 1A$		4.75		5.25	11.4	•	12.6	14.2	•	15.7	٧
										5		5	
		$V_{MIN} \leq V_{IN} \leq V_{MAX}$		$(7.5 \le V_{IN} \le 20)$			$(14.5 \le V_{IN} \le 27)$			$(17.5 \le V_{IN} \le 30)$			٧
ΔV _O	Line Regulation	I _O = 500 mA	Tj = 25℃		3	50		4	120		4	150	mV
			ΔV_{IN}	$(7 \le V_{IN} \le 25)$		14.5 ≤V _{IN} ≤30)			$(17.5 \le V_{IN} \le 30)$			V	
			0°C ≤Tj ≤+125°C			50			120			150	mV
			ΔV_{IN}	$(8 \le V_{IN} \le 20)$		(15 ≤V _{IN} ≤27)			$(18.5 \le V_{IN} \le 30)$			V	
		I _O ≤1A	Tj = 25℃	50			120					150	mV
			ΔV_{IN}	$(7.5 \leq V_{IN} \leq 20)$			$(14.6 \le V_{IN} \le 27)$			$(17.7 \le V_{IN} \le 30)$			٧
			0°C ≤Tj ≤+125°C	25			60			75			mV
			ΔV_{IN}	$(8 \le V_{IN} \le 12)$		(16 ≤V _{IN} ≤22)			(20 ≤V _{IN} ≤26)			٧	
ΔV_{O}	Load Regulation	Tj = 25℃	5 mA ≤I _O ≤1.5A		10	50		12	120		12	150	mV

mΑ $5 \text{ mA} \leq I_O \leq 1A, 0 \text{ } C \leq Tj \leq$

Tj = 25°C

+125℃

I_O ≤1A

250 mA ≤ I_0 ≤750

0°C ≤Tj ≤+125°C

5V

25

50

8

8.5

12V

60

120

8

8.5

15V

75

150

8

8.5

m۷

m۷

mΑ

mΑ