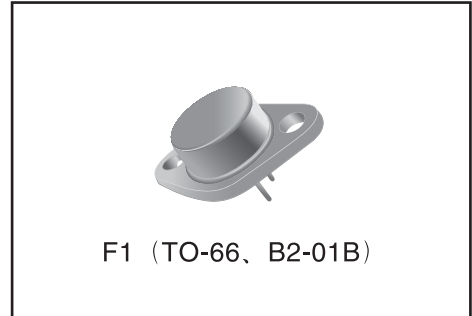


CW78MXX

1A三端固定正输出电压调整器

特性

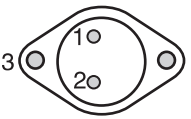
额定输出电流1A
 输出电压5V、6V、8V、9V、10V、12V、15V、18V、24V
 内部具有过流、过热和安全区保护电路
 用于各种仪器、设备做电压稳定器



极限参数

最大耗散功率：由内部保护电路限制
 允许最大输入电压：35V（5V~18V）、40V（24V）
 最小输入输出压差：3V
 工作环境温度：七专“G”、国“Ⅲ”类 -55℃~+125℃
 储存温度范围：-65℃~+150℃
 引线焊接温度：F1（TO-66、B2-01B）300℃ 5秒

封装/订货信息

封 装		型 号	质量等级
金属 菱形 封装	 <p>$\theta_{jc} = 4^{\circ}\text{C}/\text{W}$</p> <p>F1 (TO-66、B2-01B) 顶视 1-输入端 2-输出端 3(外壳)-公共端</p>	CW78M05 CW78M12 CW78M06 CW78M15 CW78M08 CW78M18 CW78M09 CW78M24 CW78M10	七专“G” 国“Ⅲ”类

主要电特性

CW78M05 (5V/1A)						
参数名称	符号	测试条件 (除另有规定 $T_{Amin} \leq T_A \leq T_{Amax}$)	最小值	典型值	最大值	单位
输出电压	V_o	$8V \leq V_i \leq 20V, 5mA \leq I_o \leq 200mA$	4.75	5.00	5.25	V
		$T_A = 25^{\circ}\text{C}, V_i = 10V \sim 15V, 5mA \leq I_o \leq 200mA$	4.80		5.20	
电压调整率	S_v	$V_i = 10V \sim 15V, I_o = 200mA$			25	mV
		$T_A = 25^{\circ}\text{C}, V_i = 8V \sim 20V, I_o = 200mA$				
电流调整率	S_i	$V_i = 10V, 5mA \leq I_o \leq 1A$			80	mV
		$T_A = 25^{\circ}\text{C}, V_i = 10V, 5mA \leq I_o \leq 1A$		20	80	
静态电流	I_Q	$T_A = 25^{\circ}\text{C}, V_i = 10V, I_o = 200mA$			8	mA
纹波抑制比	S_{rip}	$V_i = 10V, I_o = 200mA, f = 100\text{Hz}, E_{irms} = 2V$	62			db

CW78M06 (6V/1A)						
参数名称	符号	测试条件 (除另有规定 $T_{Amin} \leq T_A \leq T_{Amax}$)	最小值	典型值	最大值	单位
输出电压	V_o	$9V \leq V_i \leq 20V, 5mA \leq I_o \leq 200mA$	5.70	6.00	6.30	V
		$T_A = 25^\circ C, V_i = 11V \sim 16V, 5mA \leq I_o \leq 200mA$	5.75		6.25	
电压调整率	S_v	$V_i = 11V \sim 16V, I_o = 200mA$			30	mV
		$T_A = 25^\circ C, V_i = 9V \sim 20V, I_o = 200mA$				
电流调整率	S_i	$V_i = 11V, 5mA \leq I_o \leq 1A$			80	mV
		$T_A = 25^\circ C, V_i = 11V, 5mA \leq I_o \leq 1A$		20	80	
静态电流	I_Q	$T_A = 25^\circ C, V_i = 11V, I_o = 200mA$			8	mA
纹波抑制比	S_{rip}	$V_i = 11V, I_o = 200mA, f = 100Hz, E_{irms} = 2V$	62			db
CW78M08 (8V/1A)						
参数名称	符号	测试条件 (除另有规定 $T_{Amin} \leq T_A \leq T_{Amax}$)	最小值	典型值	最大值	单位
输出电压	V_o	$11V \leq V_i \leq 21V, 5mA \leq I_o \leq 200mA$	7.60	8.00	8.40	V
		$T_A = 25^\circ C, V_i = 13V \sim 18V, 5mA \leq I_o \leq 200mA$	7.65		8.35	
电压调整率	S_v	$V_i = 13V \sim 18V, I_o = 200mA$			40	mV
		$T_A = 25^\circ C, V_i = 11V \sim 21V, I_o = 200mA$				
电流调整率	S_i	$V_i = 13V, 5mA \leq I_o \leq 1A$			85	mV
		$T_A = 25^\circ C, V_i = 13V, 5mA \leq I_o \leq 1A$		20	85	
静态电流	I_Q	$T_A = 25^\circ C, V_i = 13V, I_o = 200mA$			8	mA
纹波抑制比	S_{rip}	$V_i = 13V, I_o = 200mA, f = 100Hz, E_{irms} = 2V$	60			db
CW78M09 (9V/1A)						
参数名称	符号	测试条件 (除另有规定 $T_{Amin} \leq T_A \leq T_{Amax}$)	最小值	典型值	最大值	单位
输出电压	V_o	$12V \leq V_i \leq 22V, 5mA \leq I_o \leq 200mA$	8.55	9.00	9.45	V
		$T_A = 25^\circ C, V_i = 14V \sim 19V, 5mA \leq I_o \leq 200mA$	8.60		9.40	
电压调整率	S_v	$V_i = 14V \sim 19V, I_o = 200mA$			45	mV
		$T_A = 25^\circ C, V_i = 12V \sim 22V, I_o = 200mA$				
电流调整率	S_i	$V_i = 14V, 5mA \leq I_o \leq 1A$			85	mV
		$T_A = 25^\circ C, V_i = 14V, 5mA \leq I_o \leq 1A$		27	85	
静态电流	I_Q	$T_A = 25^\circ C, V_i = 14V, I_o = 200mA$			8	mA
纹波抑制比	S_{rip}	$V_i = 14V, I_o = 200mA, f = 100Hz, E_{irms} = 2V$	58			db
CW78M10 (10V/1A)						
参数名称	符号	测试条件 (除另有规定 $T_{Amin} \leq T_A \leq T_{Amax}$)	最小值	典型值	最大值	单位
输出电压	V_o	$13V \leq V_i \leq 23V, 5mA \leq I_o \leq 200mA$	9.50	10.00	10.50	V
		$T_A = 25^\circ C, V_i = 15V \sim 20V, 5mA \leq I_o \leq 200mA$	9.60		10.40	
电压调整率	S_v	$V_i = 15V \sim 20V, I_o = 200mA$			50	mV
		$T_A = 25^\circ C, V_i = 13V \sim 23V, I_o = 200mA$				
电流调整率	S_i	$V_i = 15V, 5mA \leq I_o \leq 1A$			90	mV
		$T_A = 25^\circ C, V_i = 15V, 5mA \leq I_o \leq 1A$		27	90	
静态电流	I_Q	$T_A = 25^\circ C, V_i = 15V, I_o = 200mA$			8	mA
纹波抑制比	S_{rip}	$V_i = 15V, I_o = 200mA, f = 100Hz, E_{irms} = 2V$	58			db

CW78M12 (12V/1A)						
参数名称	符号	测试条件 (除另有规定 $T_{Amin} \leq T_A \leq T_{Amax}$)	最小值	典型值	最大值	单位
输出电压	V_o	$15V \leq V_i \leq 27V, 5mA \leq I_o \leq 200 mA$	11.40	12.00	12.60	V
		$T_A = 25^\circ C, V_i = 17V \sim 22V, 5mA \leq I_o \leq 200 mA$	11.50		12.50	
电压调整率	S_v	$V_i = 17V \sim 22V, I_o = 200 mA$			60	mV
		$T_A = 25^\circ C, V_i = 15V \sim 27V, I_o = 200 mA$				
电流调整率	S_i	$V_i = 17V, 5mA \leq I_o \leq 1A$		35	100	mV
		$T_A = 25^\circ C, V_i = 17V, 5mA \leq I_o \leq 1A$			100	
静态电流	I_Q	$T_A = 25^\circ C, V_i = 17V, I_o = 200 mA$			8	mA
纹波抑制比	S_{rip}	$V_i = 17V, I_o = 200 mA, f = 100Hz, E_{irms} = 2V$	56			db
CW78M15 (15V/1A)						
参数名称	符号	测试条件 (除另有规定 $T_{Amin} \leq T_A \leq T_{Amax}$)	最小值	典型值	最大值	单位
输出电压	V_o	$18V \leq V_i \leq 28V, 5mA \leq I_o \leq 200 mA$	14.25	15.00	15.75	V
		$T_A = 25^\circ C, V_i = 20V \sim 25V, 5mA \leq I_o \leq 200 mA$	14.40		15.60	
电压调整率	S_v	$V_i = 20V \sim 25V, I_o = 200 mA$			75	mV
		$T_A = 25^\circ C, V_i = 18V \sim 28V, I_o = 200 mA$				
电流调整率	S_i	$V_i = 20V, 5mA \leq I_o \leq 1A$		40	125	mV
		$T_A = 25^\circ C, V_i = 20V, 5mA \leq I_o \leq 1A$			125	
静态电流	I_Q	$T_A = 25^\circ C, V_i = 20V, I_o = 200 mA$			8	mA
纹波抑制比	S_{rip}	$V_i = 20V, I_o = 200 mA, f = 100Hz, E_{irms} = 2V$	54			db
CW78M18 (18V/1A)						
参数名称	符号	测试条件 (除另有规定 $T_{Amin} \leq T_A \leq T_{Amax}$)	最小值	典型值	最大值	单位
输出电压	V_o	$21V \leq V_i \leq 29V, 5mA \leq I_o \leq 200 mA$	17.10	18.00	18.90	V
		$T_A = 25^\circ C, V_i = 23V \sim 28V, 5mA \leq I_o \leq 200 mA$	17.30		18.70	
电压调整率	S_v	$V_i = 23V \sim 28V, I_o = 200 mA$			90	mV
		$T_A = 25^\circ C, V_i = 21V \sim 29V, I_o = 200 mA$				
电流调整率	S_i	$V_i = 23V, 5mA \leq I_o \leq 1A$		55	150	mV
		$T_A = 25^\circ C, V_i = 23V, 5mA \leq I_o \leq 1A$			150	
静态电流	I_Q	$T_A = 25^\circ C, V_i = 23V, I_o = 200 mA$			8	mA
纹波抑制比	S_{rip}	$V_i = 23V, I_o = 200 mA, f = 100Hz, E_{irms} = 2V$	50			db
CW78M24 (24V/1A)						
参数名称	符号	测试条件 (除另有规定 $T_{Amin} \leq T_A \leq T_{Amax}$)	最小值	典型值	最大值	单位
输出电压	V_o	$27V \leq V_i \leq 38V, 5mA \leq I_o \leq 200 mA$	22.80	24.00	25.20	V
		$T_A = 25^\circ C, V_i = 29V \sim 34V, 5mA \leq I_o \leq 200 mA$	23.00		25.00	
电压调整率	S_v	$V_i = 29V \sim 34V, I_o = 200 mA$			120	mV
		$T_A = 25^\circ C, V_i = 27V \sim 38V, I_o = 200 mA$				
电流调整率	S_i	$V_i = 27V, 5mA \leq I_o \leq 1A$		75	200	mV
		$T_A = 25^\circ C, V_i = 27V, 5mA \leq I_o \leq 1A$			200	
静态电流	I_Q	$T_A = 25^\circ C, V_i = 27V, I_o = 200 mA$			8	mA
纹波抑制比	S_{rip}	$V_i = 27V, I_o = 200 mA, f = 100Hz, E_{irms} = 2V$	48			db