

DC ELECTRICAL CHARACTERISTICS $T_A = 25^\circ\text{C}$, $V_+ = 12.0\text{V}$, $V_- = -6.0\text{V}$ unless otherwise specified.

PARAMETER	TEST CONDITIONS	μA711			μA711C			UNIT
		Min	Typ	Max	Min	Typ	Max	
Input offset voltage	$V_{OUT} = +1.4\text{V}$, $R_S \leq 200\Omega$, $V_{CM} = 0$ $V_{OUT} = +1.4\text{V}$, $R_S \leq 200\Omega$		1.0 1.0	3.5 5.0		1.0 1.0	5.0 7.5	mV mV
Input offset current Input bias current	$V_{OUT} = +1.4\text{V}$		0.5 25	10.0 75		0.5 25	15.0 100	μA μA
Voltage gain		750	1500		700	1500		
Response time ² Strobe release time			40 12			40 12		ns ns
Input common mode voltage range Differential input voltage range	$V_- = -7.0\text{V}$	±5.0 ±5.0			±5.0 ±5.0			V V
Output resistance			200			200		Ω
Positive output level Loaded positive output level	$V_{IN} \geq 10\text{mV}$ $V_{IN} \geq 10\text{mV}$, $I_O = 5\text{mA}$		4.5 3.5	5.0		4.5 3.5	5.0	V V
Negative output level Strobed output level	$V_{IN} \geq 10\text{mV}$ $V_{STROBE} < 0.3\text{V}$	-1.0 -1.0	-0.5	0 0	-1.0 -1.0	-0.5	0 0	V V
Output sink current	$V_{IN} \geq 10\text{mV}$, $V_{OUT} \geq 0$	0.5	0.8		0.5	0.8		mA
Strobe current Positive supply current Negative supply current	$V_{STROBE} = 100\text{mV}$ $V_{OUT} \leq 0$		1.2 8.6 3.9	2.5		1.2 8.6 3.9	2.5	mA mA mA
Power consumption			130	200		130	230	mW
The following specifications apply over the temperature range of: $-55^\circ\text{C} \leq T_A \leq +125^\circ\text{C}$ for the μA711 $0^\circ\text{C} \leq T_A \leq +75^\circ\text{C}$ for the μA711C								
Input offset voltage ³	$R_S \leq 200\Omega$, $V_{CM} = 0$ $R_S \leq 200\Omega$			4.5 6.0			6.0 10.0	mV mV
Input offset current ³ Input bias current				20 150			25 150	μA μA
Temperature coefficient of input Offset voltage			5.0			5.0		μV/°C
Voltage gain		500			500			

NOTES

- All voltages are referenced to pin 1.
- The response time specified is for a 100mV input step, with a 5mV overdrive
- The input offset voltage and input offset current are specified for a logic threshold voltage of

μA711	μA711C
1.8V at -55°C	1.5V at 0°C
1.4V at $+25^\circ\text{C}$	1.4V at $+25^\circ\text{C}$
1.0V at $+125^\circ\text{C}$	1.2V at $+75^\circ\text{C}$

- Rating applies for temperatures up to: μA711 — -125°C
μA711C — -75°C