

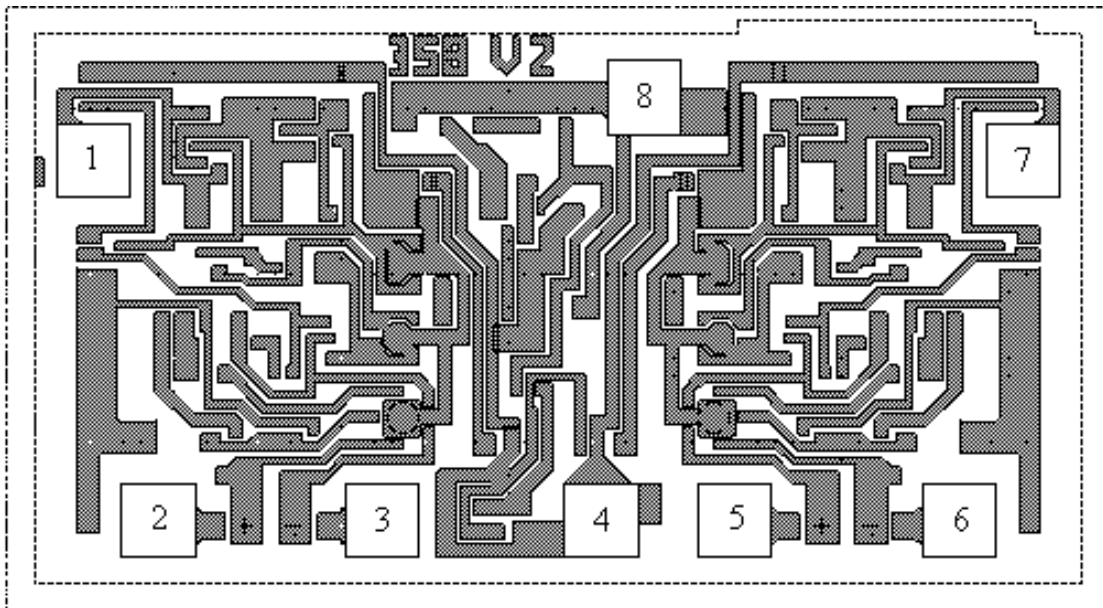
## Electrical characteristics

at specified free-air temperature,  $V_{CC} = 5\text{ V}$  (unless otherwise noted)

Symbol	Parameter	Test conditions*		MIK358			Units
				Min	Typ	Max	
$V_{IO}$	Input offset voltage	$V_{CC} = 5\text{ V to MAX,}$ $V_{IC} = V_{ICR\text{ min,}}$ $V_O = 1.4\text{ V}$	25 °C		3	7	mV
			Full range			9	
$\alpha V_{IO}$	Average temperature coefficient of input offset voltage		Full range		7		$\mu\text{V}/^\circ\text{C}$
$I_{IO}$	Input offset current	$V_O = 1.4\text{ V}$	25 °C		2	50	nA
			Full range			150	
$\alpha I_{IO}$	Average temperature coefficient of input offset current		Full range		10		$\text{pA}/^\circ\text{C}$
$I_{IB}$	Input bias current	$V_O = 1.4\text{ V}$	25 °C		-20	-250	nA
			Full range			-500	
$V_{ICR}$	Common-mode input voltage range	$V_{CC} = 5\text{ V to MAX}$	25 °C	0 to $V_{CC} - 1.5$			V
			Full range	0 to $V_{CC} - 2$			
$V_{OH}$	High-level output voltage	$R_L \geq 2\text{ k}\Omega$	25 °C	$V_{CC} - 1.5$			V
		$V_{CC} = \text{MAX, } R_L = 2\text{ k}\Omega$	Full range	26			
		$V_{CC} = \text{MAX, } R_L \geq 10\text{ k}\Omega$	Full range	27	28		
	$V_{OL}$ Low-level output voltage	$R_L \geq 10\text{ k}\Omega$	Full range		5	20	mV
$A_{VD}$	Large-signal differential voltage amplification	$V_{CC} = 15\text{ V,}$ $V_O = 1\text{ V to } 11\text{ V,}$ $R_L \geq 2\text{ k}\Omega$	25 °C	25	100		V/mV
			Full range	15			
CMRR	Common-mode rejection ratio	$V_{CC} = 5\text{ V to MAX,}$ $V_{IC} = V_{ICR\text{ min}}$	25 °C	65	80		dB
$k_{SVR}$	Supply voltage rejection ratio ( $\Delta V_{CC}/\Delta V_{IO}$ )	$V_{CC} = 5\text{ V to MAX}$	25 °C	65	100		dB
$V_{O1}/V_{O2}$	Crosstalk attenuation	$f = 1\text{ kHz to } 20\text{ kHz}$	25 °C		120		dB
$I_O$	Output current	$V_{CC} = 15\text{ V,}$ $V_{ID} = 1\text{ V, } V_O = 0$	25 °C	-20	-30		mA
			Full range	-10			
			25 °C	10	20		$\mu\text{A}$
				Full range	5		
$I_{OS}$	Short-circuit output current	$V_{CC}$ at 5 V, GND at -5 V, $V_O = 0$	25 °C		$\pm 40$	$\pm 60$	mA
			Full range				
$I_{CC}$	Supply current (two amplifiers)	$V_O = -2.5\text{ V, No load}$	Full range		0.7	1.2	mA
		$V_{CC} = \text{MAX,}$ $V_O = 0.5V_{CC}, \text{ No load}$	Full range			1	

- All characteristics are measured under open-loop conditions with zero common-mode input voltage unless otherwise specified. "MAX"  $V_{CC}$  for testing purposes is 30 V. Full range is 0 °C to 70 °C.

## Pad Location MIK358



Chip Size: 1.65 x 0.9 mm

### Pad Location Coordinates

Pad N	Pad Name	Coordinates, $\mu\text{m}$	
		X	Y
1	#1 OUT	85	625
2	#1 IN-	182	88
3	#1 IN+	518	88
4	GND	845	88
5	#2 IN+	1045	88
6	#2 IN-	1381	88
7	#2 OUT	1478	625
8	$V_{CC}$	909	720