## **Operational Amplifier**

# multicomp PRO

### RoHS Compliant



#### Features

- High Voltage Gain :100dB typ.
- High Input Resistance: 5MΩ typ.
- Bipolar Technology

Parameter	Symbol	Rating
Supply Voltage	V+/V-	±18V
Differential Input Voltage	Vid	±30V
Input Voltage	Vic	±15 *V
Power Dissipation	PD	300mW
Operating Temperature Range	Topr	-40°C to +85°C
Storage Temperature Range	Tstg	-40°C to +125°C

#### Absolute Maximum Ratings Ta = 25°C

\* For supply voltage less than± 15V, the absolute maximum input voltage is equal to the supply voltage.

#### Electrical Characteristics Ta = 25°C, V<sup>+</sup>/V<sup>-</sup>= ±15V

Parameter Name	Symbol	Test Conditions	Min	Тур	Мах	Unit
Input Offset Voltage	Vio	RS ≤ 10KΩ		0.5	6	mV
Input Offset Current	lio			5	200	5
Input Bias Current	Ів			50	500	
Input Resistance	Rin		0.3	5		MΩ
Large Signal Voltage Gain	Av	R∟ ≥ 2K, Vo = ±10V	86	100		dB
Maximum Output Voltage Swing 1	Vом1	R∟ ≥ 10KΩ	±12	±14		
Maximum Output Voltage Swing 2	Vом2	R∟≥2KΩ	±10	±13		V
Input Common Mode Voltage Range	Vicм		±12	14		
Common Mode Rejection Ratio	CMR	Rs ≥ 10KΩ	70	90		dD
Supply Voltage Rejection Ratio	SVR	Rs ≥ 10KΩ	76.5	90		αв
Operating Current	lcc			3.5	5.7	mA
Slew Rate	SR			1		V/uS
Equivalent Input Noise Voltage	Vni	RIAA, Rs = 1KΩ, 30kHz		1.4		uVns
Gain Bandwidth Product	GB			3		MHz

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#### **Equivalent Diagram**



#### Diagram



#### Part Number Table

	Description	Part Number
: Millimetres	Dual Operational Amplifier, SOP-8	KM4558

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