



ZNREF SERIES

ADVANCE PRODUCT INFORMATION

ZNREF Low Power Precision Reference Sources

FEATURES

- Trimmable output
- Excellent Temperature Stability
- Low output noise figure
- Low Dynamic Impedance
- Available in three temperature ranges
- 1%, 2% and 3% initial voltage tolerance versions available

DESCRIPTION

The ZNREF series is a range of monolithic integrated circuits providing precise reference voltages from 2.5 volts (ZNREF025) to 10 volts (ZNREF100).

The range features a knee current of 150 μ A and operation over a wide range of temperatures and currents.

The devices are available in transistor packages with one of the pins offering a trim facility whereby the output voltage can be adjusted using the circuits overleaf—(Fig 2 for ZNREF100 and Fig 1 for other voltages).

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Fig 1

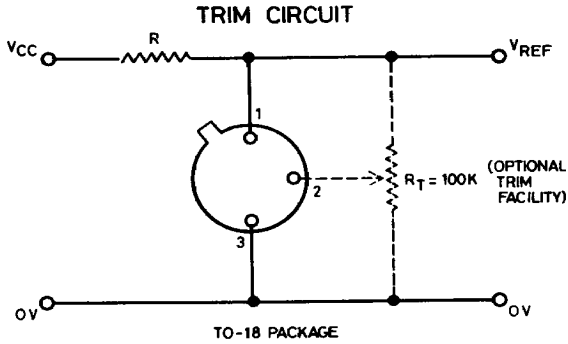
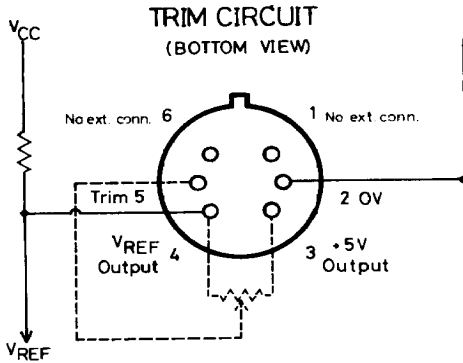


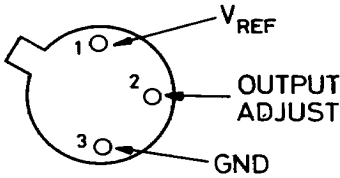
Fig 2



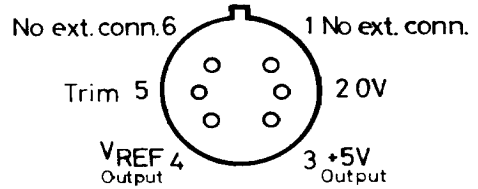
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CONNECTION DIAGRAM

TO-18 Metal Can
(Bottom View)



TO-39 Metal Can
(Bottom View)



Type Number	Nominal Output Voltage	Maximum Operating Current (mA)	Dynamic Impedance		Trim Range	Package
			Typ	Max		
ZNREF025	2.49	10	1.5	2.0	±5%	TO-18
ZNREF040	4.01	75	2.0	3.0	±5%	TO-18
ZNREF050	4.98	60	1.5	2.0	±5%	TO-18
ZNREF062	6.17	50	2.0	3.0	±5%	TO-18
ZNREF100	9.96	50	3.0	4.0	±2.5%	6 lead TO-39

ORDERING INFORMATION

DEVICE	TOL %	T.C. PPM/°C	Temp. Range
ZNREF A1	1	50	-55°C to +125°C
ZNREF A2	2		
ZNREF A3	3		
ZNREF B1	1	30	-20°C to +85°C
ZNREF B2	2	40	
ZNREF B3	3		
ZNREF C1	1	25	0°C to +70°C
ZNREF C2	2		
ZNREF C3	3	30	