T-43-01

INTEGRATED CIRCUITS

SEMICONDUCTORS

(i) Phase locked loops

LN-06

Type	Upper Frequency (MHz)	Max. Lock Range (% fo)	FM Distortion (%)	Output Swing +5% Deviation (Vpp)	Centre Frequency Stability (ppm/°C)	Frequency Drift with Voltage (% V)	Input Resistance (Ohms)	AM output available	Supply Current (mA)	Supply Voltage (V)	Temp Range (°C)	Case:
NE565	0.5	120	0.2	0.15	±200	0.16	5K	No	8	±5/ 12	0/70	TO-96
NE566	0.5	-	0.2	30%/V***	±200	0.16	-	-	7	10/+26	0/70	TO-99
NE567	0.5	14	5*	0.20	35±60	0.7	20K**	Yes*	7	+4.5/+9	0/70	TO-99

* The 567 AM and FM outputs are available but are not optimised for Linear demodulation.
** Input biased internally.
*** Figures shown in VCO gain in % deviation per volt.

LN05

(j) High accuracy FET input operational amplifiers

TYPE	Open loop gain @ Vout = ±10V $R_L \geq 2K\Omega$ min	Output Characteristics Voltage @ RL = 2K n Ta = min to max typ (V)	Short ckt. current (mA)	Input offset Voltage max. (mV)	Input Bias current max (pA)	Input Voltage range Differential (V)	Power Supply Operating (V)	Temp. range Operating (°C)	Case
AD 540J	20,000	± 13	25	50	50	± 20	± 5 to 18	+ 25°C to 70°C	TO-99
AD 540K	50,000	± 13	25	20	25	± 20	± 5 to 18	+ 25°C to 70°C	TO-99
AD 540S	50,000	± 13	25	20	25	± 20	± 5 to 18	+ 25°C to 125°C	TO-99

LN-09

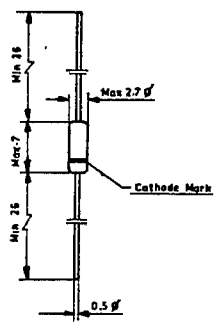
(k) Two terminal temperature transducer IC

TYPE	Operating Voltage Range V	Nominal Current Output @ 25°C µA	Nominal Temperature Coefficient µA/°C	Calibration Error @ 25°C max	Non-linearity -55°C to + 150°C °C max	TON µS	Reverse Bias Leakage Current pA	Case
AD590H	+4 to +30	298.2	1.0	±5.0	±2.0	20	10 @ 10V	TO-18

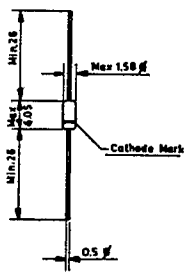
CASE OUTLINES

SEMICONDUCTORS

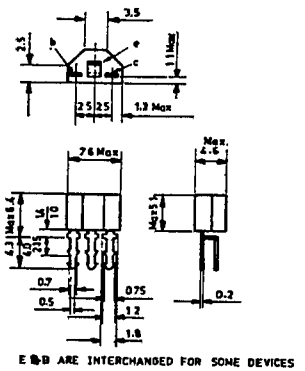
DO-7



DO-35

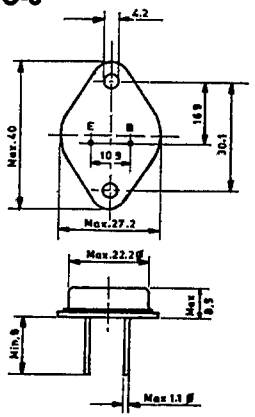


SOT-25

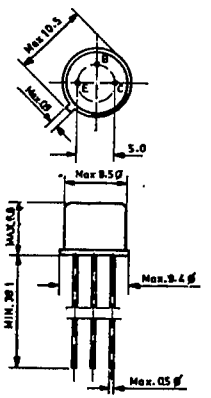


E & B ARE INTERCHANGED FOR SOME DEVICES

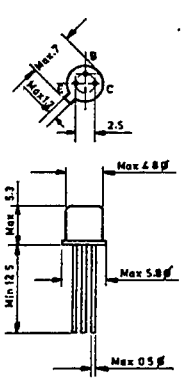
TO-3



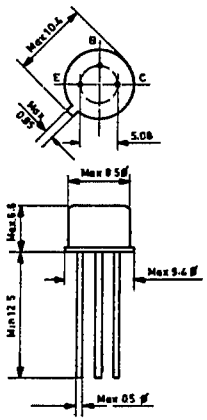
TO-5



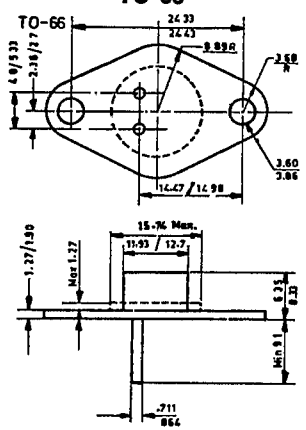
TO-18



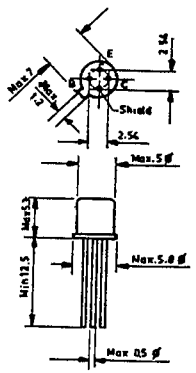
TO-39



TO-66

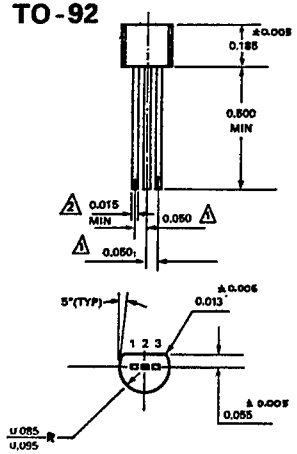


TO-72



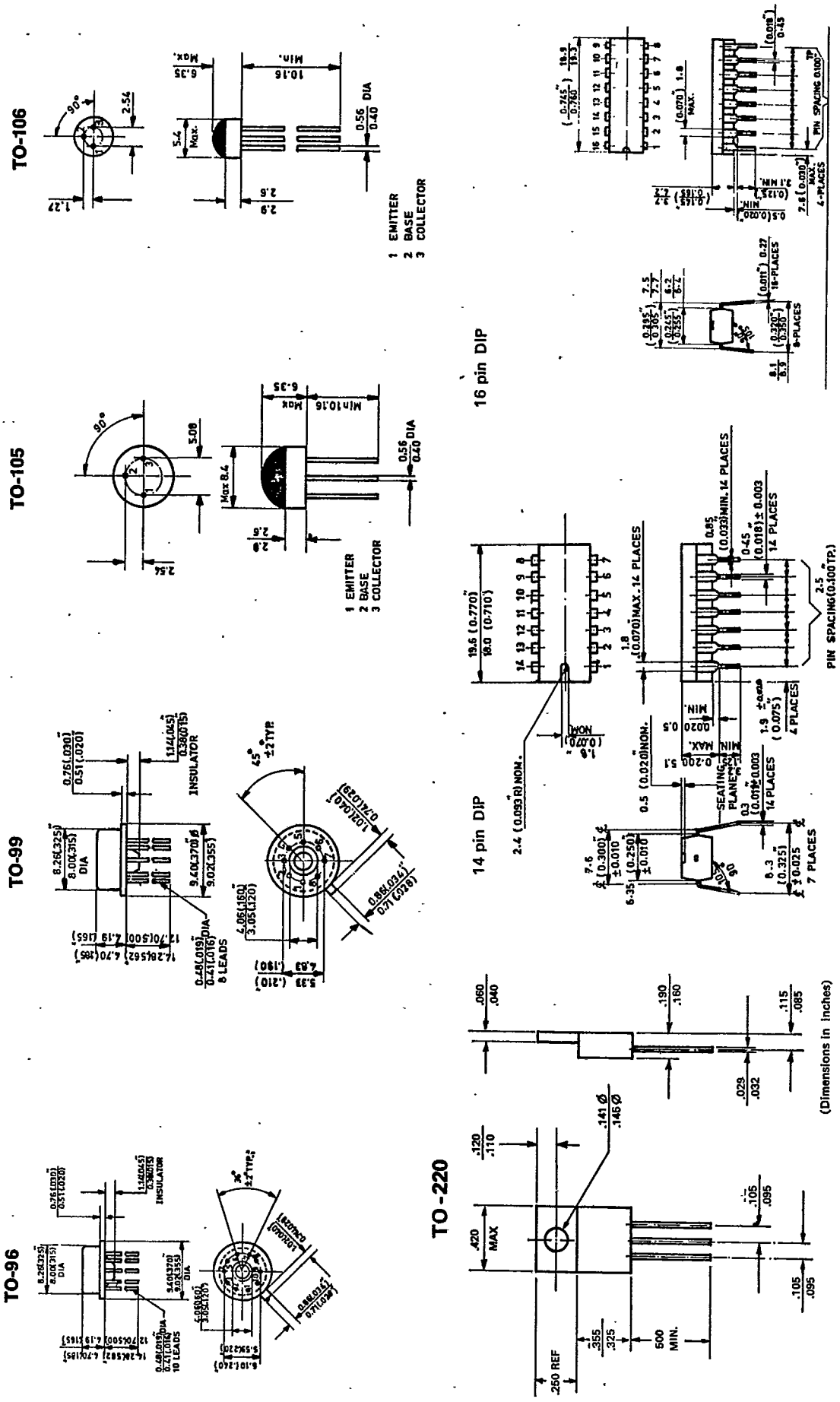
E & B ARE INTERCHANGED FOR SOME DEVICES

TO-92



(Dimensions in inches)

Note : Dimensions in mm unless otherwise specified



Note : Dimensions in mm unless otherwise specified