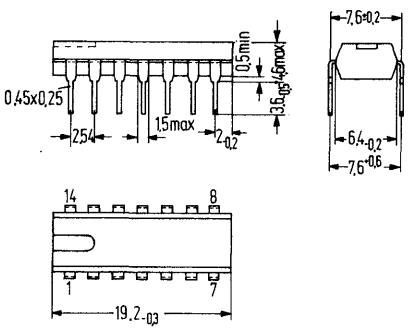
Expecially economical and universal operational amplifiers in plastic plug-in packages (14 pins) 20 A 14 DIN 41866, which by their excellent performance qualities are well suited for a wide range of applications. No external components for frequency compensation are required.
For single amplifier performance, see TAA 761 data sheet.

Additional features:

- Wide common-mode range
- Large supply voltage range
- Protection against destruction
- High output current
- Large control range
- No frequency compensation

Type	Ordering codes
TAA 4761 A	Q67000-A1032
TAA 4765 A	Q67000-A1033

Package outlines



Weight approx. 1.1 g
Plastic plug-in package 20 A 14 DIN 41866 (14 pins)
Dimensions in mm

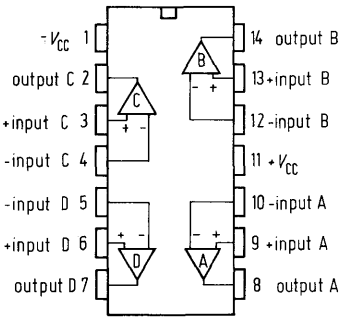
Maximum ratings

		TAA 4761 A TAA 4765 A	
Supply voltage	V_{CC}	±15	V
Output current	I_q	70	mA
Differential input voltage	V_{ID}	$\pm V_{CC}$	
Junction temperature	T_j	150	°C
Storage temperature	T_s	−55 to +125	°C
Thermal resistance system – ambient air	R_{thSamb}	140	K/W

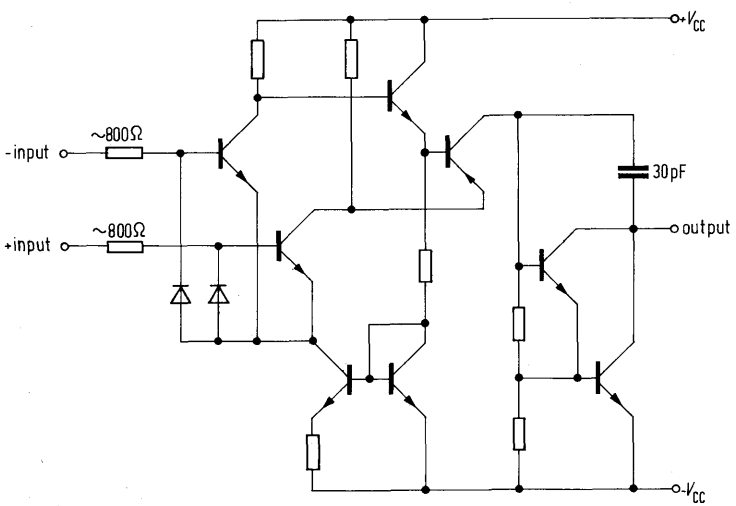
Range of operation

Supply voltage	V_{CC}	±2 to ±15	V
Ambient temperature in operation (TAA 4761 A)	T_{amb}	0 to +70	°C
(TAA 4765 A)	T_{amb}	−25 to +85	°C

Pin configuration



Circuit of one operational amplifier



Operating characteristics

(V_{cc} = ±15 V; T_{amb} = 25 °C)

		TAA 4761 A TAA 4765 A			
		min	typ	max	
Supply current	I_{cc}		1	3	mA
Input offset voltage (R_G = 50 Ω)	V_{io}	–6		6	mV
Input offset current	I_{io}	–300	±80	300	nA
Input current	I_i		.5	1.0	µA
Output voltage: R_L = 2 kΩ	V_{qpp}	14.9		–14	V
R_L = 620 Ω	V_{qpp}	14.9		–12.5	V
Input impedance (f = kHz)	Z_i		200		kΩ
Open-loop voltage gain: R_L = 2 kΩ, f = 100 Hz	G_v	80	85		dB
R_L = 10 kΩ, f = 100 Hz	G_v		90		dB
Output leakage current	I_{qlk}			10	µA
Input common-mode range (R_L = 2 kΩ)	V_{iCM}	12	±13.5	–12	V
Common-mode rejection ratio (R_L = 2 kΩ)	$CMRR$	65	79		dB
Sensitivity to supply voltage variations (G_v = 100)	$\frac{\Delta V_{io}}{\Delta V_{cc}}$		25	100	µV/V
Temp. coefficient of V_{io} (R_G = 50 Ω)	α_{Vio}		6		µV/K
Temp. coefficient of I_{io} (R_G = 50 Ω)	α_{Iio}		.3		nA/K
Noise voltage (to spec. DIN 45405, measured at input R_s = 2,5 kΩ)	V_N		3		µV
Output saturation voltage (I_q = 10 mA) (V_{cc} = ±5 V)	V_{qsat}			1	V
Supply current	I_{cc}		1		mA
Input offset voltage	V_{io}	–6		6	mV
Input offset current	I_{io}	–300		300	nA
Input current	I_i			1	µA
Output voltage (R_L = 2 kΩ)	V_{qpp}	4.9		–4	V
Open-loop voltage gain (R_L = 2 kΩ, f = 100 Hz)	G_v	70			dB