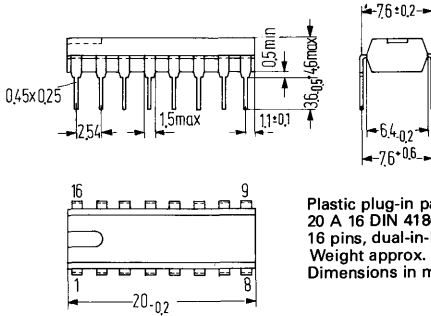


Not for new development

Integrated stereo decoder according to matrix procedure. Automatic mono-stereo switching and manual stereo-mono switching (forced mono). Driver for indicating lamp up to 100 mA.

Type	Ordering code
TBA 450N	Q67000-A621

Package outlines



Plastic plug-in package
 20 A 16 DIN 41866
 16 pins, dual-in-line
 Weight approx. 1.2 g
 Dimensions in mm

Absolute maximum ratings

Supply voltage	V_{CC}	18	V
Auxiliary voltage	V_{aux}	3	V
Lamp voltage	V_{ip}	18	V
Current for stereo indication	I_1	100	mA
Storage temperature	T_s	-40 to +125	°C
Junction temperature	T_j	150	°C
Thermal resistance (system-air)	R_{thsa}	120	K/W

Range of operation

Supply voltage	V_{CC}	4.5 to 18	V
Ambient temperature in operation	T_{amb}	0 to +70	°C

Electrical characteristics ($T_{amb} = 25^{\circ}\text{C}$, $V_{cc} = 15\text{V}$)

Total current consumption ($I_1 = 80\text{ mA}$)

Input resistance

Output resistance per channel

MPX input voltage

Output voltage per channel

Saturation voltage of lamp driver ($I_1 = 80\text{ mA}$)

Harmonic distortion ($f_{AF} = 1\text{ kHz}$; $V_{qpp} = 350\text{ mV}$)

Auxiliary voltage for switching from mono to stereo
from stereo to mono

Attenuation at 19 kHz

at 38 kHz

at 67 kHz (SCA signal)

(without additional circuit)

Cross-talk attenuation

$f_{AF} = 6.3\text{ kHz}$

$f_{AF} = 10\text{ kHz}$

Balance

I_{cc}	20	mA
R_i	>25	k Ω
R_o	4.5	k Ω
V_{ipp}	<2	V
V_{qpp}	2	V
V_{CEsat}	<1.5	V
k	<0.5	%
V_5	>0.71	V
V_5	<0.47	V
a_{PT}	>40	dB
a_{PT}	>40	dB
a_{SCA}	>35	dB
a_{ct}	>36	dB
a_{ct}	>30	dB
a_{bal}	<0.2	dB

Block diagram

