

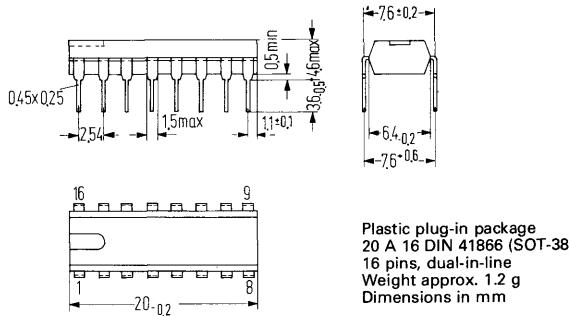
## Preliminary data

The monolithic integrated circuit TDA 2522 contains a 8.8-MHz colour subcarrier oscillator with divider stage for the production of both 4.4-MHz reference signals.

- Circuit for the production of the chrominance signal control voltage and a reference voltage
- Circuit for the production of the colour-killer and identification signal
- Colour-killer delay
- Two synchronous demodulators for (B-Y) and (R-Y) signals
- Matrix for (G-Y)-signals
- PAL flipflop and PAL switch
- Blanking in the synchronous demodulators

Type	Ordering code
TDA 2522	Q67000-A1230

## Package outlines



## Absolute maximum ratings

- |                                  |                |             |    |
|----------------------------------|----------------|-------------|----|
| Supply voltage                   | $V_{11/4\max}$ | 14          | V  |
| Storage temperature              | $T_s$          | -20 to +125 | °C |
| Ambient temperature in operation | $T_{amb}$      | -20 to +60  | °C |
| Total power dissipation          | $P_{tot}$      | 600         | mW |

**Preliminary data****Electrical characteristics ( $V_{P(11/4)} = 12$  V,  $T_{amb} = 25$  °C)**

Typical current consumption	$I_{P(11)}$	40	mA
Ratio of demodulated signals at $V_{F(B-Y)} = V_{F(R-Y)}$	$V_{(B-Y)}$	$1.78 V_{(R-Y)}$	
Matrix for (G-Y)-signal	$(G-Y)$	$-0.51 (R-Y)$	$-0.19 (B-Y)$
Input resistance of the chrominance signal inputs	$R_{ch(R-Y)}$	$\geq 800$	Ω
	$R_{ch(B-Y)}$	$\geq 800$	Ω
Input capacitance of the chrominance signal inputs	$C_{ch(R-Y)}$	$\leq 10$	pF
	$C_{ch(B-Y)}$	$\leq 10$	pF
Output voltages of colour difference signal	$V_{(R-Y)}$	$\geq 2.4$	V <sub>pp</sub>
	$V_{(G-Y)}$	$\geq 1.35$	V <sub>pp</sub>
	$V_{(B-Y)}$	$\geq 3.0$	V <sub>pp</sub>
DC voltage at the colour difference signal outputs	$V_{3/4}$	5.6	V
	$V_{2/4}$	5.6	V
	$V_{1/4}$	5.6	V
Impedance of the colour difference signal outputs	$Z_{(R-Y)}$	250	Ω
	$Z_{(G-Y)}$	250	Ω
	$Z_{(B-Y)}$	250	Ω
H/2 ripple voltage at (R-Y)-output	$V_{H/2}$	$\leq 10$	mV <sub>pp</sub>
Input resistance of the 8.8 MHz oscillator	$R_{9/4}$	270	Ω
Output resistance of the 8.8 MHz oscillator	$R_{10/4}$	200	Ω
Total holding range	$\Delta f$	$\pm 500$	Hz
Key pulses (at pin 15) coming from horizontal combination TDA 2590			
Colour sync. signal keying	ON	$V_{15/4}$	V
	OFF	$V_{15/4}$	V
Blanking	ON	$V_{15/4}$	V
	OFF	$V_{15/4}$	V

## Preliminary data

### **Electrical characteristics (contin.)**

## Block diagram with application hint

