

TCA 650 CHROMINANCE DEMODULATOR FOR PAL/SECAM DECODER

The TCA 650 is an integrated synchronous demodulator PAL and SECAM chrominance signals. Switching the standard is performed internally, controlled by an external applied DC signal. In addition to the synchronous demodulator, which delivers color difference signals, the circuit incorporates: a PAL matrix, to obtain Separately the (R-Y) and (B-Y) components of the chrominance signal, a PAL which reverses the phase of the (R-Y) component σf chrominance signal, a SECAM switch which performs the separation of DR and DB chrominance signals and the SECAM limiter.

Features

- Operating temperature	-25	+70 o €
- Supply voltage	max.	13.2 V
- Supply current	typ.	36 mA
- Gain from both inputs to pin 13 (PAL)	typ.	2.8 -
- Gain from both inputs to pin 15 (PAL)	typ.	3.1 -
- Gain difference from line to line (PAL)	max.	5 %
- Output signals DR, DB (SECAM)	1.6	2.2 Vpp
- Color difference output signal (R-Y)	Q.99 ···	1.21 Vpp
- Color difference output signal (B-Y)	1.32 -	1.62 Vpp
- Square wave input signal	2.55 -	3.55 Vpp
- System switch input FAL	min.	7 V
SECAM	max.	1 V

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!	1.	Chrominance input			
1	2.	GND ·			
1	₃.	Chrominance input		16	
1	4.	PAL/SECAM selector	2	15	
ł	5.	(R-Y) reference input (SECAM)	Ä		
-	۵.	(R-Y) reference input (PAL)	Ц	16	
		(B-Y) reference input (PAL)	[13	
		(B-Y) reference input (SECAM)	<u> </u>	12	
		(B-Y), DB input	띨	<u> </u>	
		Demodulated (B-Y) output		TI I	
ŀ	11.	(R-Y), DR input	ਰ ਰ	10)	

ļ	14.	V+		•
1	15.	(B-Y),	DB	output

! 13. (R-Y), DR output

| 16. H/2 input (7.5 kHZ)

12. Demodulated (R-Y) output

PACKAGE MP-117 / TOP VIEW :