



### ■ Pin

Pin No.	Pin Name	Pin No.	Pin Name
1	500kHz Osc. (1)	10	GND
2	500kHz Osc. (2)	11	Video→TPSG SW Output
3	SIF Osc. (1)	12	Video Input
4	Audio Input	13	Video Clamp Input
5	SIF Osc. (2)	14	Video Bias Adj.
6	V <sub>CC1</sub>	15	Video Bias Output
7	Voltage Reg. Output	16	Video Output
8	V <sub>CC2</sub>	17	TPSG SW
9	SIF Output	818	GND

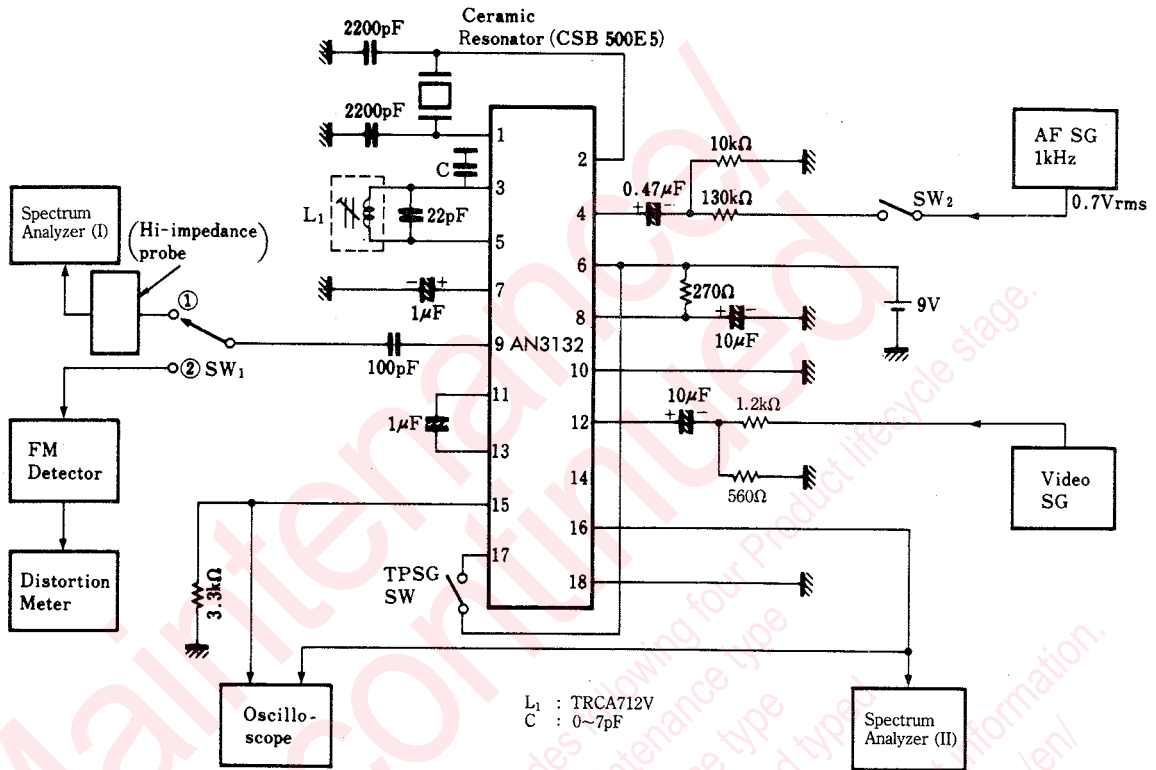
### ■ Absolute Maximum Ratings (Ta=25°C)

Item	Symbol	Rating	Unit
Supply voltage	V <sub>CC</sub>	10	V
Supply current	I <sub>CC</sub>	35	mA
Power dissipation	P <sub>D</sub>	350	mW
Operating ambient temperature	T <sub>opr</sub>	-20~+70	°C
Storage temperature	T <sub>stg</sub>	-55~+150	°C

### ■ Electrical Characteristics (V<sub>CC</sub>=9V Ta=25°C)

Item	Symbol	Test Circuit	Condition	min.	typ.	max.	Unit
Supply current	I <sub>CC</sub>	1	TPSG On	15	20	25	mA
Stabilized power output	V <sub>7</sub>	1		6.4	6.9	7.4	V
Stabilized power stability	ΔV <sub>7</sub>	1	V <sub>CC</sub> =8~10V	-0.2		+0.2	V
Video modulation degree	m	1	Pin⑭ Open	77.5	82.5	87.5	%
Video output amplitude	V <sub>O</sub>	1	V <sub>in</sub> =0.6V <sub>p-p</sub>	0.58	0.60	0.62	V <sub>p-p</sub>
Max. video modulation degree	m <sub>max.</sub>	1	Pin⑭ Open	90	100	110	%
Differential gain	DG	1	m=77.5%	-3		+3	%
Differential phase	DP	1	m=77.5%	-3		+3	deg
Video S/N	SN	1	m=82.5%	55			dB
TP output amplitude	v <sub>O(TP)</sub>	1		0.59	0.63	0.67	V <sub>p-p</sub>
V/S ratio	V/S	1		75:25	70:30	65:35	
TP modulation degree	m <sub>TP</sub>	1	Pin⑭ Open	80	87	95	%
SIF frequency	f <sub>S</sub>	1		5.40	5.50	5.60	MHz
SIF output level	V <sub>S</sub>	1	Pin⑨ Open	108	109	110	dBμ
Sound FM modulation sensitivity	Δf <sub>FM</sub>	1		±35	±50	±65	kHz
Sound FM modulation distortion	THD					1.0	%

Test Circuit 1



Measuring Conditions List

Item	Input Condition		Measuring Method	Measuring Pin	SW	
	Video SG	AF SG			1	2
m	10-step wave, 2V <sub>P-P</sub>	—	$m = b/a \times 100$ $V_o = b$	⑮-⑯	—	—
m <sub>max</sub>	10-step wave, 3V <sub>P-P</sub>	—		⑮-⑯	—	—
V <sub>o</sub>	10-step wave, 2V <sub>P-P</sub>	—	Measure with an oscilloscope.	⑮-⑯	—	—
DG	10-step wave, 2V <sub>P-P</sub>	—	Measure with a vectorscope.	⑯	—	—
GP	10-step wave, 2V <sub>P-P</sub>	—	Measure with a vectorscope.	⑯	—	—
SN	10-step wave, 2V <sub>P-P</sub>	—	Measure with a noise meter.	⑯	—	—
V <sub>TP</sub>	10-step wave, 2V <sub>P-P</sub>	—	Measure with an oscilloscope.	⑯	—	—
V/S	10-step wave, 2V <sub>P-P</sub>	—	Measure with an oscilloscope.	⑯	—	—
m <sub>TP</sub>	10-step wave, 2V <sub>P-P</sub>	—	Measure with an oscilloscope and calculate in the same manner as m.	⑮-⑯	—	—
f <sub>S</sub>	—	—	Measure a frequency with a spectrum analyzer(I).	⑨	①	—
V <sub>S</sub>	—	—	Measure a 5.5 MHz level with a spectrum analyzer(I).	⑨	①	—
Δf <sub>FM</sub>	—	1 kHz, 0.7Vrms	Measure with a modulation analyzer.	⑨	②	ON
THD	—	1 kHz, 0.7Vrms	Measure with a distortion gauge.	⑨	②	ON

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