

Manual de Servicio

TV en Colores

TC-20G9A

Chasis BR1L



Especificaciones Técnicas

TELEVISOR	TC-20G9A
Alimentación	220V CA, 50/60Hz
Consumo	62W
Entrada para antena	75Ω - VHF/UHF/CATV (toma F)
Sistema de color	PAL-M / PAL-N / NTSC/AUTO
Sistema de sintonía	por frecuencia (FST)
Recepción de canales	VHF: 2 ~ 13, UHF: 14 ~ 69, CATV: 1 ~ 125
Cinescopio (Diagonal Visual)	480 mm
Potencia de audio	(3 + 3W) RMS
Entrada de video	1 Vpp, 75Ω
Entrada de audio	500 mV, 47KΩ
Salida de audio	0,0 ~ 2,0V, 4,7KΩ
Recepción de audio	STEREO, SAP, MONO
Dimensiones (AN x AL x P)	630 x 468 x 483 mm
Peso	19,5 Kg

CONTROL REMOTO

Modelo:

Alimentación: 3V (2 pilas pequeñas - tipo AA)

Longitud infra-rojo: 9500 Å (angstrom)

Cantidad de teclas: 21

Dimensiones (AN x AL x P): 48 x 31 x 160 mm

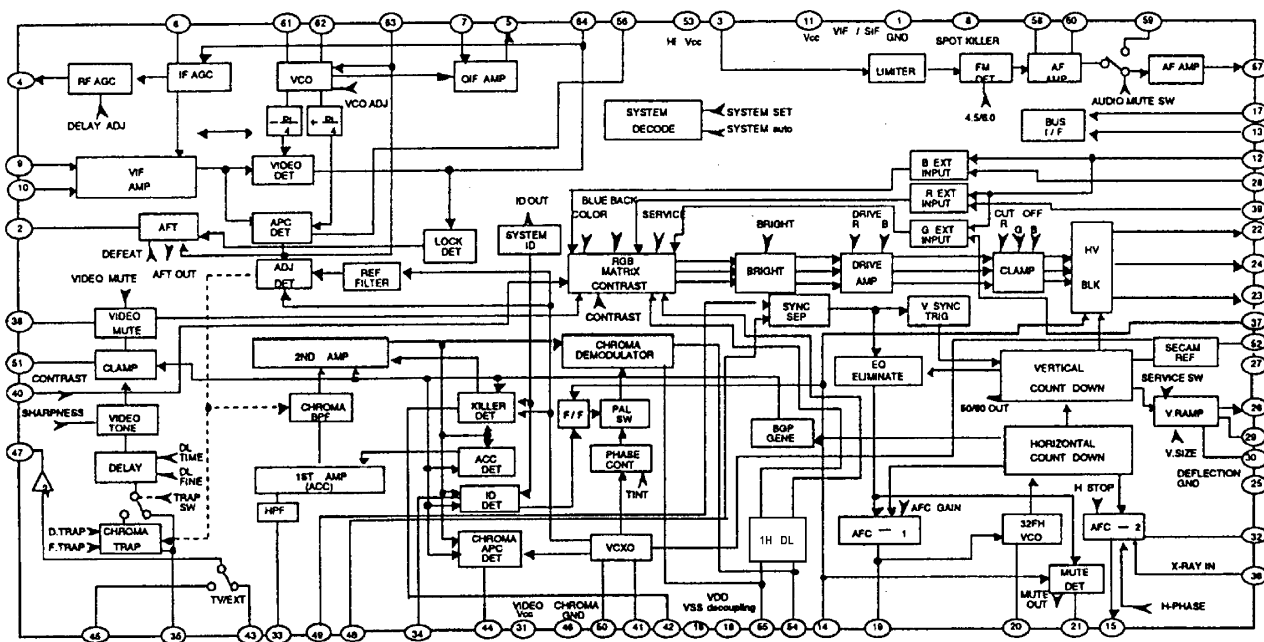
ACCESORIOS (proporcionados)

- 1 Transmisor de Control Remoto
- 1 Adaptador de impedancia 300Ω / 75Ω (Balun)
- 2 Pilas de 1,5V (R6 o tipo "AA" pequeñas)

Las especificaciones arriba detalladas, están sujetas a alteraciones sin previo aviso.

Panasonic®

Grupo CS - 1999
Departamento de Apoyo Técnico



PINO	NOMBRE	TENSIÓN	DESCRIPCIÓN	PINO	NOMBRE	TENSIÓN	DESCRIPCIÓN
01	VIF GND	0V	GND for VIF/SIF Block	31	Video Chroma VCC	5V	5V bloques de vídeo e croms
02	AFT OUT	DC 0.3 - 8.7V	AFT OUT	32	AFC2 FILTER	DC 4.5V	AFC2 FILTER
03	SIF LIMITER IN	DC 0.5 - 4.5V	SIF det. IN	33	CHROMA IN	DC 3.5V	CHROMA input
04	RF AGC OUT	DC 0.3 - 8.7V	RF AGC OUT	34	ID FILTER		Identification filter
05	QIF OUT	DC 3.2V	QIF det. OUT	35	VIDEO IN	DC 2.7V	Video input
06	IF AGC filter	DC 1.8 - 4.6V	IF AGC filter pin	36	X-RAY IN	DC 0V	X-RAY in
07	QIF IN	DC 1.8 - 4.6V	QIF sound carrier input pin	38	BLACK HOLD	DC 3.1V	Black level hold pin for black stretch function
08	Spot Killer	DC 7.5V	Spot killer capacitor pin	40	CONTRAST		Detection ACL filter
09	VIF IN (1)	DC 1.5V	VIF det. input pin	41	X-TAL 3.58	DC 3.3V	Crystal NTSC
10	VIF IN (2)	DC 1.5V	VIF det. input pin	42	KILLER FILTER	DC 3.7V	Killer filter
11	VIF Vcc (5V)	DC 5.0V	5V to VIF/SIF Block	43	EXT IN	DC 1.95V	External video input
12	FAST BLK	DC 0.0V	TV/Half Tone/EXT RGB SW control	44	CHROMA APC	DC 3.0V typ	CHROMA APC FILTER
13	SCL		SCL pin for IIC BUS	45	TV IN	DC 1.95V	Video input
14	SCP		Sand castle pulse output pin	46	VIDEO/CHROMA GND	0V	GND for Video and Chroma blocks
15	HOUT		H pin pre-drive output	47	Y SW OUT		Video tuner output TV/EXT
16	VSS	0V	Ground pin of CMOS	48	H-SYNC SEP IN		H-SYNC SEP IN
17	SDA		SDA pin of IIC BUS	49	V-SYNC SEP IN		V-SYNC SEP IN
18	VDD	DC 5.0V	VDD decoupling pin	50	X-TAL PAL	DC 3.3V	Crystal PAL
19	AFC1 FILTER		AFC-1 filter pin of 32MHz VCO	51	VIDEO CLAMP	DC 3V	Video Clamp
20	H OSC	DC 2.45V	Pino H OSC	52	SECAM REF		SECAM REF
21	MUTE FILTER	DC 0.3 - 8.7V	Mute Filter	53	Hi Vcc (9V)	9.0V	9V for output (RGB, AF, AFT/RF AGC)
22	R OUT		"R" output	54	-(B-Y) IN	DC 2.9V	SECAM signal input
23	G OUT		"G" output	55	-(R-Y) IN	DC 2.9V	SECAM signal input
24	B OUT		"B" output	56	VIF APC FILTER2	DC 3.0V	VIF APC filter
25	DEFLECTION GND	0V	Deflection GND	57	UDIO OUT	DC 2.8V	Audio output
26	V OUT		Vertical output	58	AUDIO BYPASS	DC 2.3 ~ 3.0V	Audio Bypass
29	V RAMP feedback		V RAMP feedback	59	EXT AUDIO IN	DC 2.5V	External Audio input
30	V RAMP C		V RAMP capacitor	60	FM DIRECT OUT	DC 2.5V	Audio output
27	START UP	9V (VCC)	Deflection 9V, IIC BUS and VDD control	61	VIF VCO(1)	DC 4.2V	Coil VIF VCO
28	B IN	DC 2.5V		62	VIF VCO(2)	DC 4.2V	Coil VIF VCO
37	G IN	DC 2.5V		63	VIF APC FILTER1	DC 3.0V	VIF APC filter
39	R IN	DC 2.5V		64	VIF VIDEO OUT	2.2Vp-p	Video Detector output

Relección del DAC Padrón

ITEM	DAC	FAIXA	TC-20G9A
B0	SUB COLOR	0 - 127	60
B1	SUB TINT	0 - 127	58
B2	SUB BRIGHT	0 - 255	112
B3	SUB CONTRAST	0 - 127	90
B4	SUB SHARPNESS	0 - 31	31
B5	V-SIZE	0 - 127	80
B6	V-CENTER	0 - 7	2
B7	V-CENTER offset	0 - 3	2
C0	R CUT OFF	0 - 511	64
C1	G CUT OFF	0 - 511	128
C2	B CUT OFF	0 - 511	64
C3	R DRIVE	0 - 127	64
C4	B DRIVE	0 - 127	64
C5	R-DRIVE (warm)	0 - 127	15
C6	B-DRIVE (warm)	0 - 127	15
C7	R-DRIVE (cool)	0 - 127	15

ITEM	DAC	FAIXA	TC-20G9A
C8	B-DRIVE (cool)	0 - 127	15
C9	AFT	0 - 255	128
Ca	RF AGC	0 - 127	64
Cb	RF AGC offset (UHF)	0 - 15	9
Cc	H-CENTER	0 - 15	6
Cd	H-CENTER offset (60 Hz)	0 - 15	4
Ce	VIDEO OUT GAIN	0 - 7	4
S0	CLOCK ADJUST	0 - 255	128
S1	LOUDNESS COMP	0 - 63	52
M0	INPUT LEVEL	0 - 63	31
M1	STEREO PLL VCO	0 - 63	31
M2	FILTER	0 - 63	31
M3	LOW LEVEL SEP	0 - 63	31
M4	HIGH LEVEL SEP	0 - 63	31

■ ESQUEMAS ELÉCTRICOS

■ PLACA Y (CRT)

