



**VC-2**  
***V-CHIP RATING MONITOR***

**broadcast video systems corp.**

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## VC-2 Installation Notes

1. The video input is looping and must be terminated.
2. On power-up, a five second diagnostic test is performed. During this test, all of the LED segments will illuminate.
3. The VC-2 has no internal adjustments.
4. The VC-2 supports the four rating systems contained in EIA-744-A. Decimal points are used to indicate which rating system is being displayed:

**U.S. TV** - No decimal points are used.

**MPAA** - The decimal point in the first and last character position will illuminate.

**Canadian English** - The decimal point in the first character position will illuminate.

**Canadian French** - The decimal point in the last character position will illuminate.

5. The decimal point in the third character position will illuminate for 1/2 second each time a program rating packet is detected in the Extended Data Service (ie. V-Chip data).
6. If V-Chip data is not detected for 4.5 seconds, the message 'NO DATA' will be displayed.

## V-Chip Rating System

The U.S. TV Parental Guideline Rating System consists of six Age Group Ratings and up to five Content Rating descriptions. Six alpha-numeric LED's on the VC-2 front panel will display both the Age Rating and the Content Ratings.

The **AGE RATING** consists of:

- Y** - All Children
- Y7** - Directed to Older Children (7+)
- G** - General Audience
- PG** - Parental Guidance Suggested
- 14** - Parents Strongly Cautioned
- MA** - Mature Audience Only

The **CONTENT RATING**, one or more of which may accompany the AGE RATING, consists of:

- FV** - Fantasy Violence
- V** - Violence
- S** - Sexual Situations
- L** - Adult Language
- D** - Sexually Suggestive Dialog

The Canadian English Language Rating System consists of six Age Group ratings (no Content Rating descriptions):

- E** - Exempt (no blocking)
- C** - Children
- C8+** - Children, eight years and older
- G** - General Programming, suitable for all ages
- PG** - Parental Guidance
- 14+** - Viewers 14 years and older
- 18+** - Adult Programming

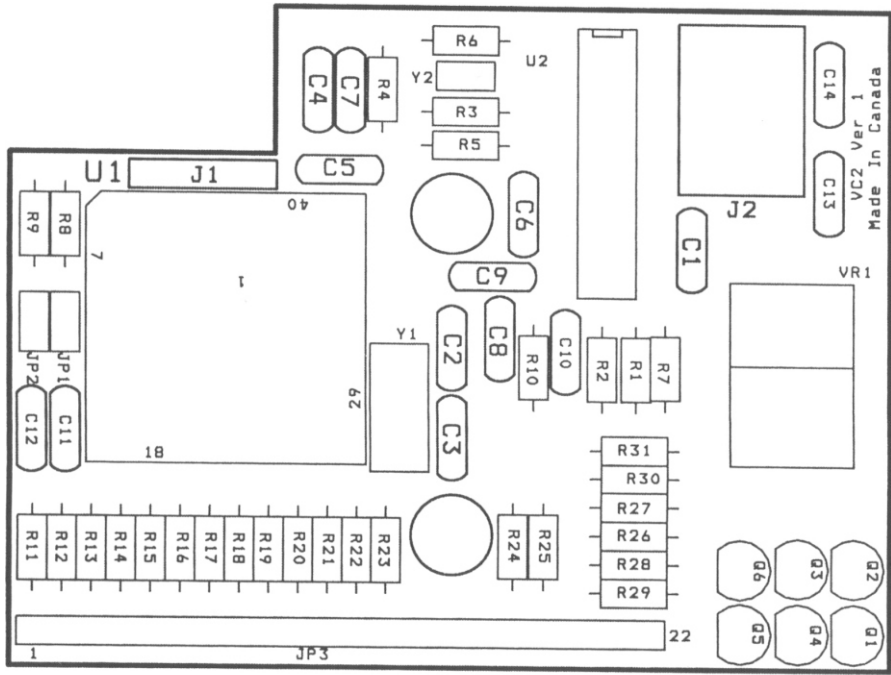
The Canadian French Language Rating System consists of five Age Group ratings (no Content Rating descriptions):

- E** - Exempt (no blocking)
- G** - General Programming, suitable for all ages
- 8ANS+** - Children, eight years and older
- 13ANS+** - Not suitable for children under 13
- 16ANS+** - Not suitable for children under 16
- 18ANS+** - Restricted to adults

The front panel may also display the following:

- NR (NOT RATED)** - No blocking intended
  - NO DATA** - Absence of Content Advisory data
  - DATA ERROR** - Data present but unable to be decoded due to distortion or invalid data
  - LOSS OF VIDEO** - No video present
- An invalid rating (eg. Y D) will cause the entire display to flash

For a more detailed explanation of Content Advisory standards, refer to EIA-744-A.



VC-2 CPU Board  
Component Layout

## VC-2 V-CHIP DECODER

PART	QUANT	REFERENCE
0.0	1	R3
75	2	R16, R20
100	4	R11, R18, R19, R25
150	6	R12, R13, R14, R22, R23, R24
220	3	R15, R17, R21
470	1	R5
1K	6	R26, R27, R28, R29, R30, R31
4K7	2	R8, R9
6K8	1	R10
10K	1	R1
470K	1	R6
10M	1	R4
10K 1%	1	R7
18 PIN	1	U2
44 PIN	1	U1
18pF	1	C7
47pF	2	C2, C3
560p	1	C6
6n8	1	C8
68n	1	C10
0.1 $\mu$ /63v	4	C1, C5, C9, C12
2.2 $\mu$ F/35v	1	C11
10 $\mu$ F/25v	2	C13, C14
2N4124	6	Q1, Q2, Q3, Q4, Q5, Q6
577202B heat sink	1	VR1
7805	1	VR1
8.0 MHz	1	Y1
32.768 KHz	1	Y2
22 Pin Right Angle	1	JP3
9v ADPT RECPT	1	J2
Z86E43/LCC	1	U1
Z8613012 PSC	1	U2

## DISPLAY BOARD

Alpha Numeric Double Digit      3      DSP1, DSP2, DSP3