## Adjustments Cont'd

**Convergence Adjustment (see fig. 7)**

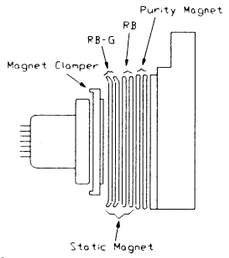



**Fig. 7**

**Method:**
1: Receive a dotted pattern.
2: Un-fix the convergence magnet clamper and align red with blue dots at the centre of the screen by rotating (R, B) static convergence.
3: Align red/blue with green dots at the centre of the screen by rotating (RB-G) static convergence magnet.
4: Fix the convergence magnets by fixing the clamper.
5: Remove the DY wedges and slightly tilt the deflection yoke horizontally and vertically to obtain good overall convergence.
6: Fix the deflection yoke by wedges.
7: If purity error is found, follow Purity

**Adjustment instructions**

**SAT Section**

**AFC Alignment**

**Signal In:**
Power on.

**Signal Out:**
Voltmeter at TP2.

**Method:**
1: Adjust VR102 to read 2.9 -3V.

**Remarks:**
Tuner without signal I/P and loading.

**Signal In:**
LNB supply alignment
**Signal Out:**
Voltmeter at tuner LNB input.

**Method:**
1: Connect 43 W resistor to LNB input.
2: Connect TP1 to GND and power on.
3: Press SEQ. key twice and press select +/- key to select V-polarisation.
4: Press pre-set key twice until the turning bar appears.
5: Press select +/- key to adjust LNB voltage to 13.1V ± 0.1V.
6: Press SEQ. key and select +/- key to select H-polarisation.
7: Press pre-set key twice until the turning appears.
8: Press select +/- key to adjust LNB voltage to 17.5V ± 0.1V.

**SIF Alignment**

**Signal In:**
RF signal generator.
**Signal Out:**
VTVM and distortion meter at pin 1 and 3 of SAT SCART.

**Method:**
1: Receive the correct RF program and audio channel.
2: Adjust T101 to maximum level output and minimum distortion output of pin 3 of SAT SCART.
3: Adjust T102 to maximum level output and minimum distortion output of pin 1 of SAT SCART.

**Remarks:**
1: Pre-set audio mode to stereo and audio frequency L to 7.02 MHz and audio frequency R to 7.20 MHz of RF signal generator.
2: Pre-set audio deviation to 100 kHz p-p.

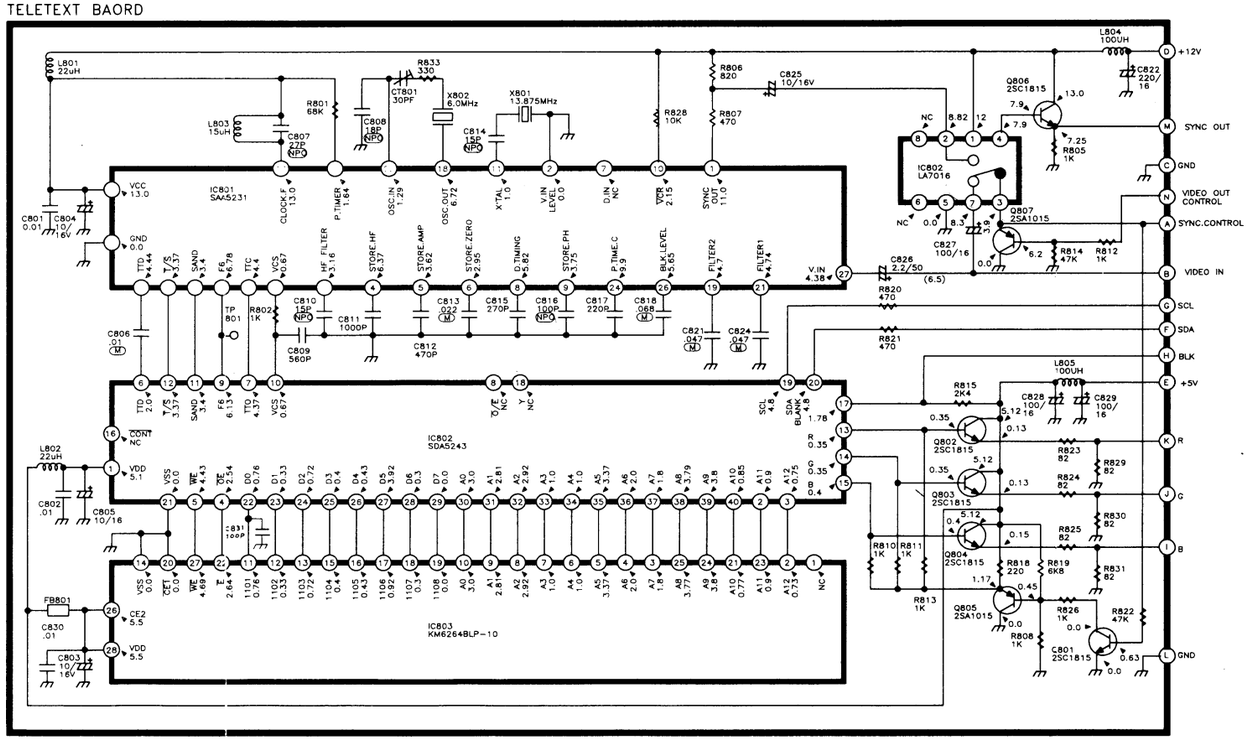
**Video DEV. Alignment**

**Signal In:**
RF signal generator.
**Signal Out:**
Oscilloscope at pin 19 of SAT SCART.

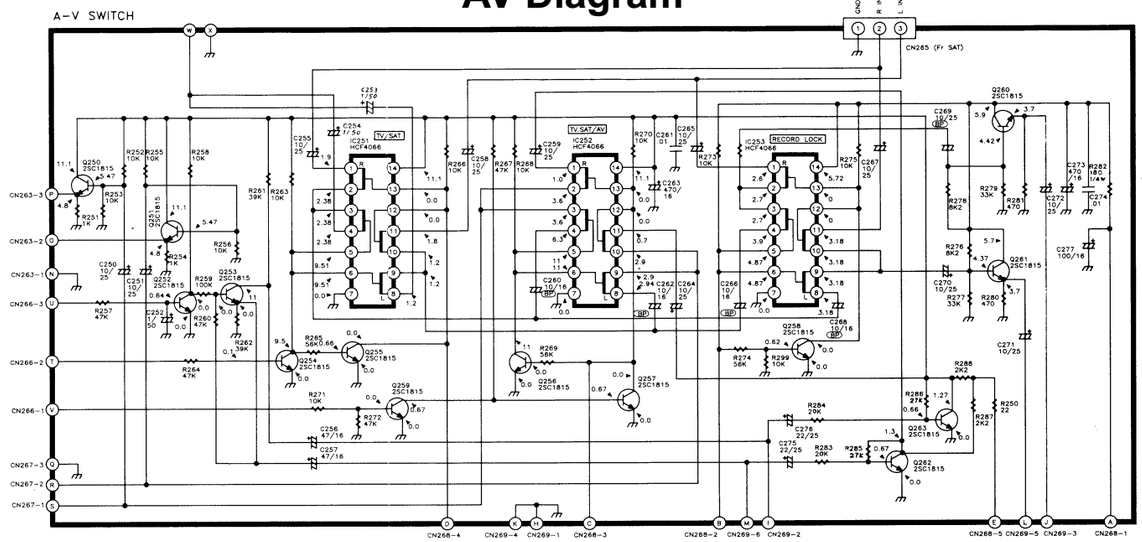
**Method:**
1: Receive the monoscope pattern.
2: Press SEQ. key and select +/- key to select 16 MHz video deviation.
3: Adjust VR101 to output 1Vp-p.

**Remarks:**
1: Connect 75 W resistor between ground to pin 10, pin 12 and pin 19 of SAT SCART.

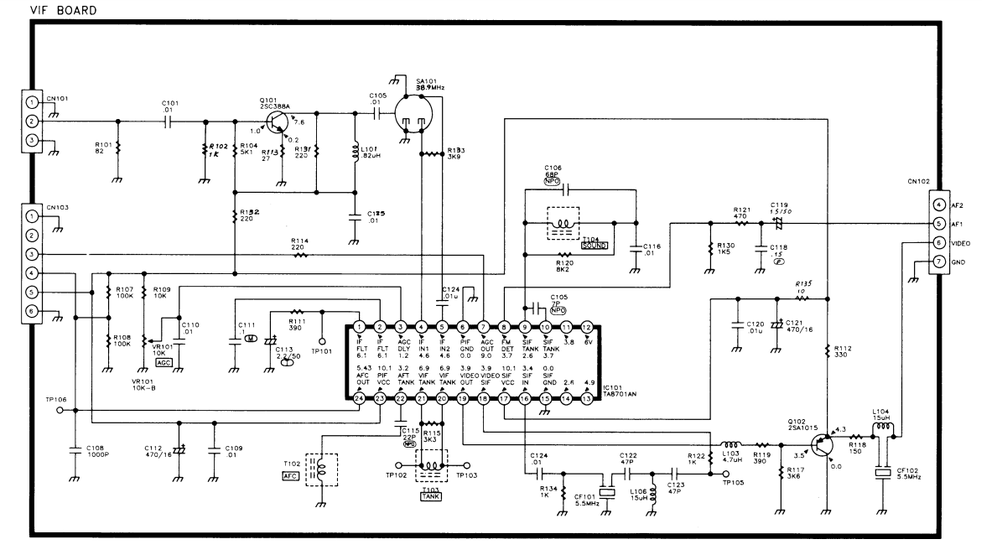
## Teletext Diagram



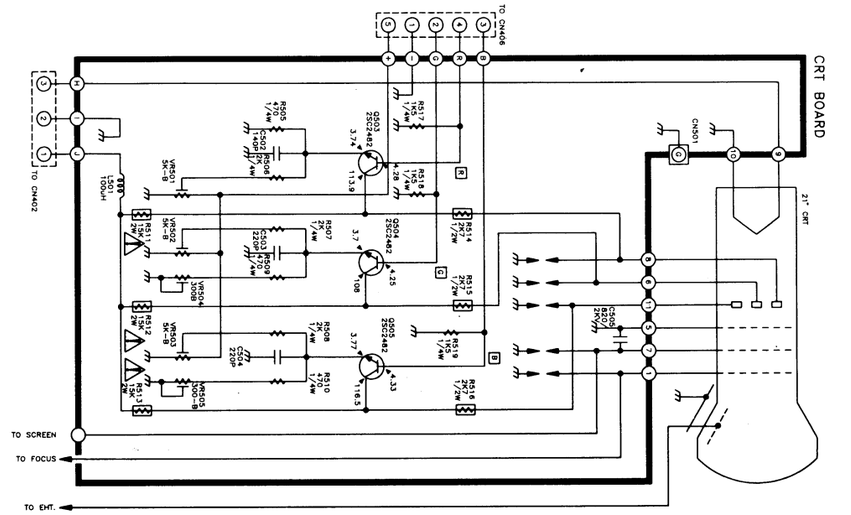

## AV Diagram




## IF Diagram

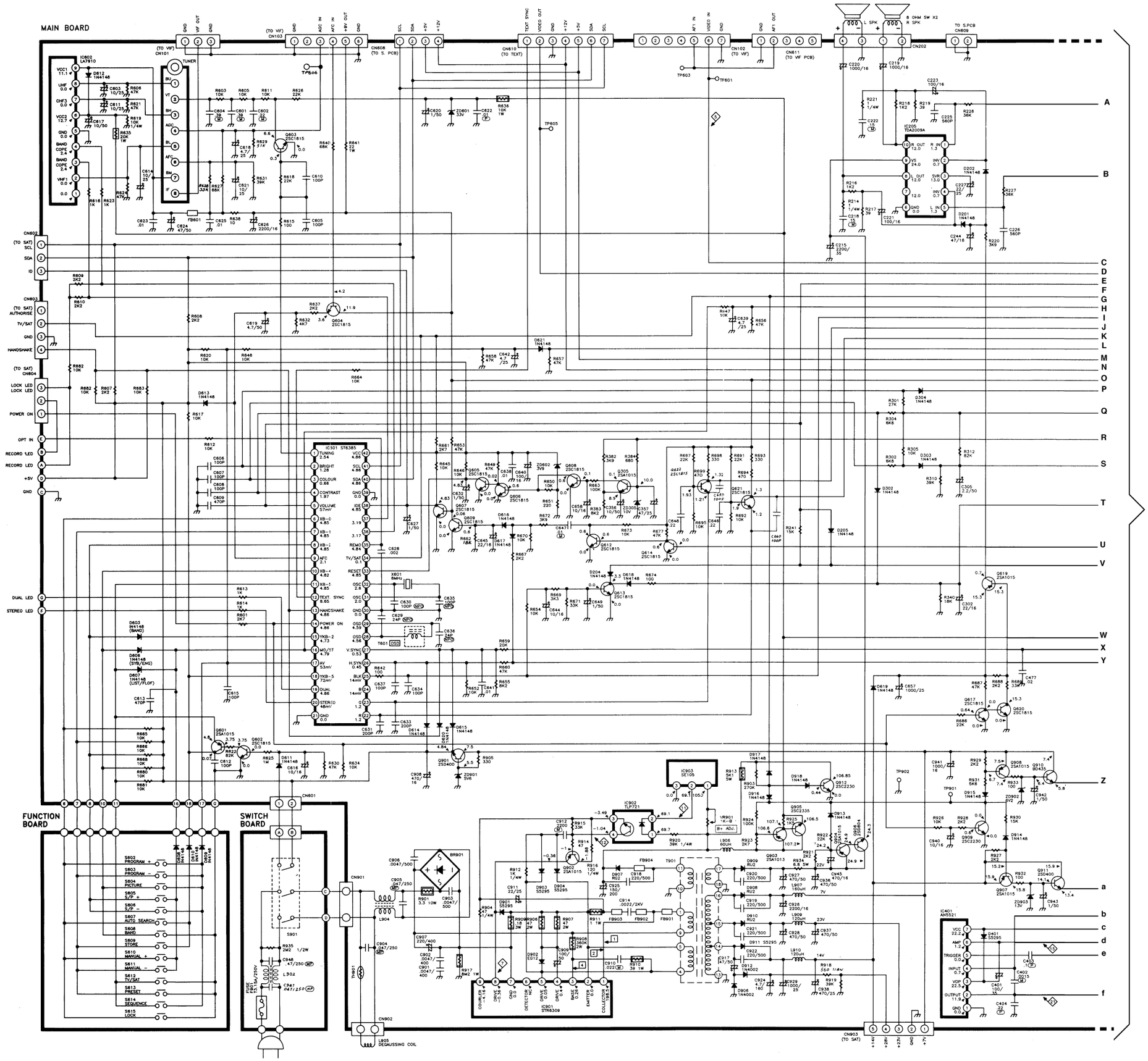



## CRT Diagram



## Main Diagram

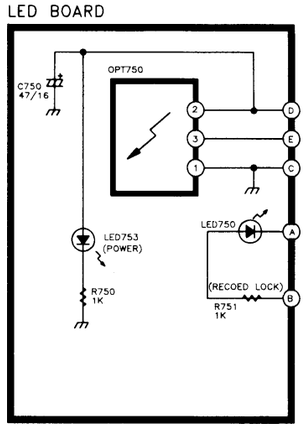
| | | | |
|---|---|---|---|
| STAND BY MODE | | 21.5uH | |
| 1 | 390V P – P | 2 | 560V P – P |
| | | 21.5uH | |
| 3 | 0.25V P – P | 4 | 1.5V P – P |
| | | | |
| 5 | 1.8V P – P | 6 | 2.5V P – P |
| 21.5uH | | | |
| 7 | 1.5V P – P | 8 | 0.2V P – P |
| | | | |
| 9 | 0.18V P – P | 10 | 0.24V P – P |
| | | 21.5us | |
| 11 | 6V P – P | 12 | 3V P – P |
| | | | |
| 13 | 4.5V P – P | 14 | 0.7V P – P |
| 20ms | | 20ms | |
| 15 | 22V P – P | 16 | 3V P – P |
| 20ms | | 20ms | |
| 17 | 1V P – P | 18 | 2.2V P – P |
| 20ms | | 20ms | |
| 19 | 1.3V P – P | 20 | 1V P – P |
| 20ms | | 64us | |
| 21 | 50V P – P | 22 | 0.74V P – P |
| 64us | | 64us | |
| 23 | 110V P – P | 24 | 900V P – P |



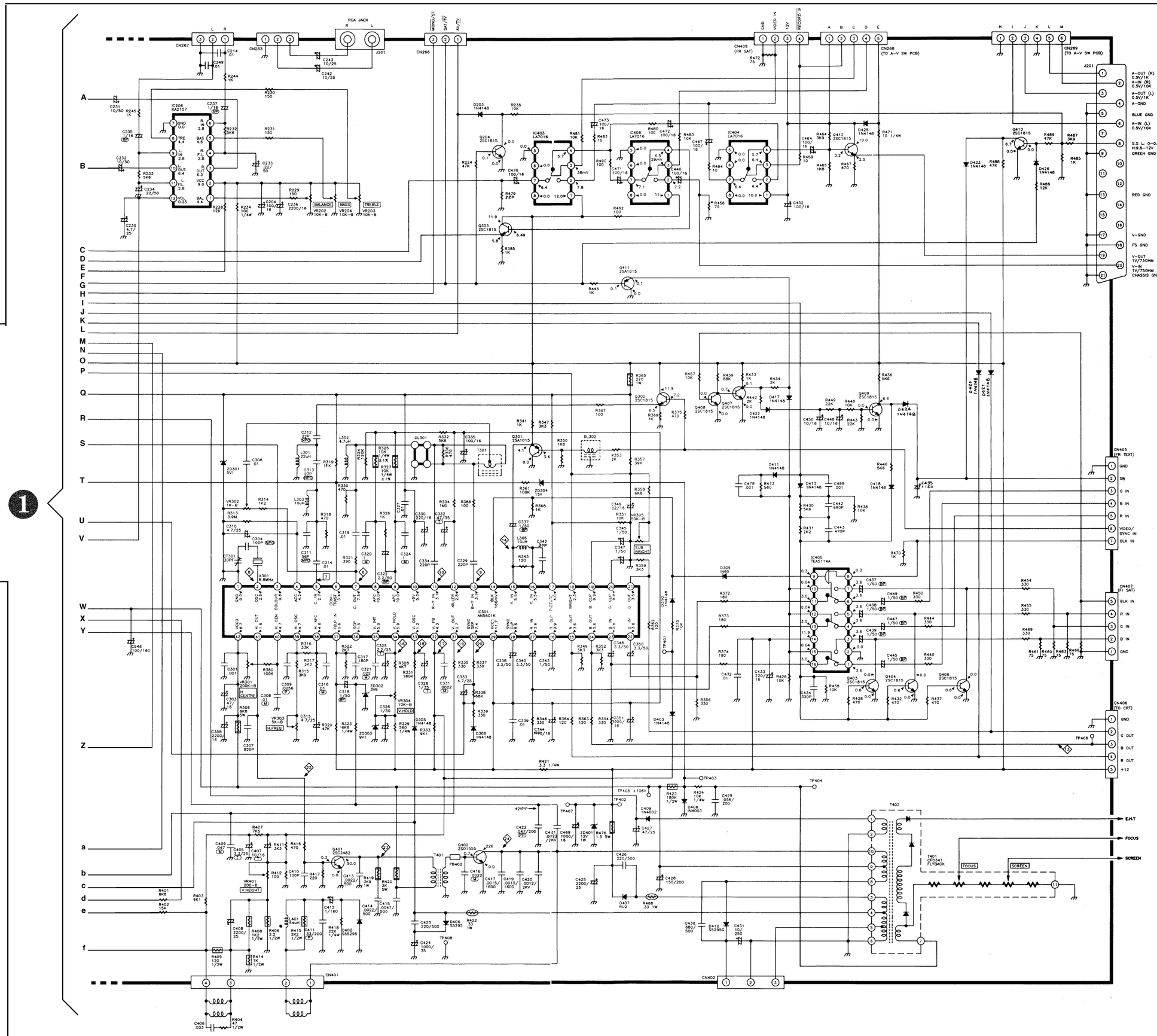
# AMSTRAD STV 2104



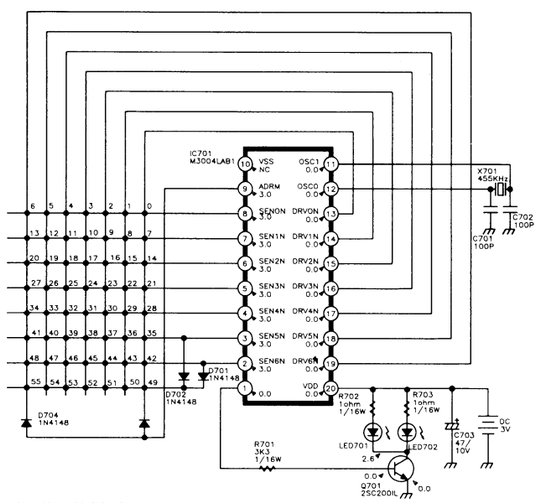
## LED Diagram




## Main Diagram Cont'd



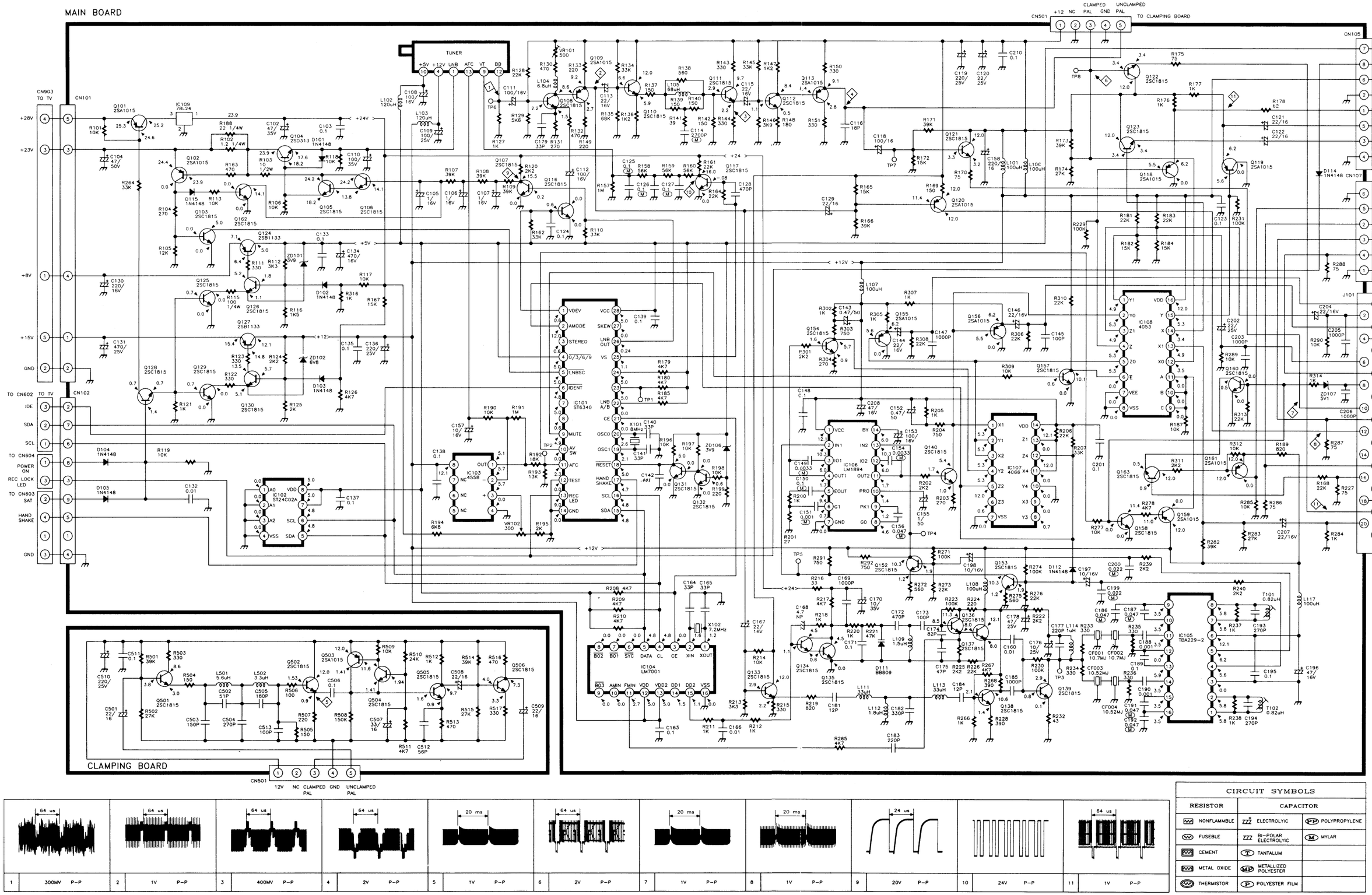

## Remote Control Diagram




LOCAL COMMANDS FOR IC701

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 0. 0 | 10. | 20. NORMAL | 30. CYAN | 40. SOUND PICTURE → | 50. |
| 1. 1 | 11. 7 | 21. RECORD | 31. YELLOW | 41. – | 51. EXPAND |
| 2. | 12. 8 | 22. PRESET | 32. INDEX | 42. – | 52. REVEAL |
| 3. | 13. 9 | 23. BROWSE | 33. HOLD | 43. – | 53. SUBPAGE |
| 4. 2 | 14. TV/AV | 24. TV/SAT | 34. CANCEL | 44. SELECT + | 54. SLEEP |
| 5. 3 | 15. STORE | 25. STAND BY | 35. PROGRAM + | 45. SELECT – | 55. MUTE |
| 6. 4 | 16. | 26. SEQUENCE | 36. PROGRAM – | 46. MIX | |
| 7. 5 | 17. MODE | 27. – | 37. PAGE + | 47. TEXT | |
| 8. 6 | 18. CALL | 28. RED | 38. PAGE – | 48. PICTURE | |
| 9. | 19. ST/MONO | 29. GREEN | 39. SOUND PICTURE + | 49. | |

# Main Diagram (Satellite Receiver & Clamping)




| | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 300MV P-P | 2 | 1V P-P | 3 | 400MV P-P | 4 | 2V P-P | 5 | 1V P-P | 6 | 2V P-P | 7 | 1V P-P | 8 | 1V P-P | 9 | 20V P-P | 10 | 24V P-P | 11 | 1V P-P |

CIRCUIT SYMBOLS

| RESISTOR | CAPACITOR | |
|---|---|---|
| NONFLAMMBLE | ELECTROLYIC | POLYPROPYLENE |
| FUSEBLE | BI-POLAR ELECTROLYIC | MYLAR |
| CEMENT | TANTALUM | |
| METAL OXIDE | METALLIZED POLYESTER | |
| THERMISTOR | POLYESTER FILM | |