Bell and Howell replacement speed module ref CM 601

Components listing

Resistors – all ¼ W, 5% tol unless otherwise stated

|  |  |
| --- | --- |
| Ref | Details |
| R1 | 100 |
| R2 | 2k7 |
| R3 | 10k |
| R4 | 10k |
| R5 | 10k |
| R6 | 150k, 2% |
| R7 | 100k |
| R8 | 10k |
| R9 | 33k |
| R10 | 47k |
| R11 | 1k |
| R12 | 5M1 |
| R13 | 1M2 |
| R14 | 4k7 |
| R15 | 0.47, 1W |

Capacitors – all in μF unless otherwise stated, 10% tol

|  |  |
| --- | --- |
| Ref | Details |
| C1 | 0.01 |
| C2 | 1, 50V, 105 degC electrolytic |
| C3 | 0.0047 |
| C4 | 0.0047 |
| C5 | 0.047 |
| C6 | 0.1 |
| C7 | 0.0047 |
| C8 | 0.047, 50V, ceramic disk |

Diodes

|  |  |
| --- | --- |
| Ref | Details |
| D1 | zener diode Z 24 |
| D2 | No numerical marking, blue band one end, PCB screen printing indicates non-zener |
| D3 | T 4 |
| D4 | No numerical marking, blue band one end, PCB screen printing indicates non-zener |
| D5 | zener diode Z 6.2 |
| D6 | RM1Z |

Integrated circuits

|  |  |
| --- | --- |
| Ref | Details |
| U1 | HA17741 op amp |

Transistors

|  |  |
| --- | --- |
| Ref | Details |
| Q1 | 2SD880 |
| Q2-Q4 incl | 2SC536 |
| Q5 | 2SD970 |

Micellaneous

|  |  |
| --- | --- |
| Ref | Details |
| Z1 | Unknown green component with marking  TNR, G820k, 4X1 or TNR, 6820k, 4X1 |