

## RESISTORS

|    |              |                                                                                                            |                                           |                   |
|----|--------------|------------------------------------------------------------------------------------------------------------|-------------------------------------------|-------------------|
| 2  | Ferrite Bead | A117, A133                                                                                                 | Panasonic min 80Ω 9mm<br>EXCELSA39        | 667-EXC-ELSA39V   |
|    |              |                                                                                                            | Panasonic min 50Ω 5mm<br>EXCELSA35        | 667-EXC-ELSA35    |
|    |              |                                                                                                            | Fastron 60Ω@10MHz 10mm<br>BEAD/10-600P-YY | BEAD 10-60        |
| 2  | 330Ω 1%      | A9, A75                                                                                                    | KOA Speer metal film<br>MF1/4DC3300F      | 660-MF1/4DC3300F  |
| 4  | 1.5k 1%      | A3, A4, A35, A36                                                                                           | KOA Speer metal film<br>MF1/4DC1501F      | 660-MF1/4DC1501F  |
| 2  | 3.3k 1%      | A11, A89                                                                                                   | KOA Speer metal film<br>MF1/4DC3301F      | 660-MF1/4DC3301F  |
|    |              |                                                                                                            | Xicon 271-3.3K-RC                         | 271-3.3K-RC       |
| 2  | 10k 1%       | A10, A84                                                                                                   | KOA Speer metal film<br>MF1/4DC1002F      | 660-MF1/4DC1002F  |
|    |              |                                                                                                            | Xicon 271-10K-RC                          | 271-10K-RC        |
| 1  | 15k 1%       | A30                                                                                                        | KOA Speer metal film<br>MF1/4DC1502F      | 660-MF1/4DC1502F  |
|    |              |                                                                                                            | Xicon 271-15K-RC                          | 271-15K-RC        |
| 1  | 22k 1%       | A6                                                                                                         | KOA Speer metal film<br>MF1/4DC2202F      | 660-MF1/4DC2202F  |
| 6  | 33k 1%       | A41, A53, A54, A60, A73, A74                                                                               | KOA Speer metal film<br>MF1/4DC3302F      | 660-MF1/4DC3302F  |
|    |              |                                                                                                            | Xicon 271-33K-RC                          | 271-33K-RC        |
| 1  | 47k 1%       | A29                                                                                                        | KOA Speer metal film<br>MF1/4DC4702F      | 660-MF1/4DC4702F  |
|    |              |                                                                                                            | Xicon 271-47K-RC                          | 271-47K-RC        |
| 1  | 82k 1%       | A22                                                                                                        | KOA Speer metal film<br>MF1/4DC8202F      | 660-MF1/4DC8202F  |
|    |              |                                                                                                            | Xicon 271-82K-RC                          | 271-82K-RC        |
| 2  | 100k trimmer | A18, TR2                                                                                                   | Murata top 12 turn<br>PV37W104C01B00      | 81-PV37W104C01B00 |
|    |              |                                                                                                            | Bourns single turn, top<br>3362F-1-104LF  | 652-3362F-1-104LF |
| 20 | 100k 1%      | A2, A28, A34, A37, A40, A49, A50,<br>A51, A52, A59, A61, A69, A70, A71,<br>A72, A78, A79, A113, A121, A129 | KOA Speer metal film<br>MF1/4DC1003F      | 660-MF1/4DC1003F  |
|    |              |                                                                                                            | Yageo MF0207FTE52-100K                    | METALL 100K       |
|    |              |                                                                                                            | Xicon 271-100K-RC                         | 271-100K-RC       |
| 1  | 150k 1%      | A87                                                                                                        | KOA Speer metal film<br>MF1/4DC1503F      | 660-MF1/4DC1503F  |
|    |              |                                                                                                            | Xicon 271-150K-RC                         | 271-150K-RC       |
| 2  | 220k 1%      | A86, A91                                                                                                   | KOA Speer metal film<br>MF1/4DC2203F      | 660-MF1/4DC2203F  |
|    |              |                                                                                                            | Xicon 271-220K-RC                         | 271-220K-RC       |
| 3  | 330k 1%      | A7, A8, A110                                                                                               | KOA Speer metal film<br>MF1/4DC3303F      | 660-MF1/4DC3303F  |
|    |              |                                                                                                            | Xicon 271-330K-RC                         | 271-330K-RC       |
| 1  | 470k 1%      | A118                                                                                                       | KOA Speer metal film<br>MF1/4DC4703F      | 660-MF1/4DC4703F  |
|    |              |                                                                                                            | Xicon 271-470K-RC                         | 271-470K-RC       |

|   |         |                                  |                                                   |                      |
|---|---------|----------------------------------|---------------------------------------------------|----------------------|
| 3 | 820k 1% | A94, A109, A123                  | <b>Yageo</b> metal film 250mW<br>MFR-25FTE52-820K | 603-MFR-25FTE52-820K |
|   |         |                                  | <b>Yageo</b> metal film 500mW<br>MFR50SFTE52-820K | 603-MFR50SFTE52-820K |
|   |         |                                  | <b>Xicon</b> 250mW 50ppmC<br>271-820K-RC          | 271-820K-RC          |
| 5 | 1M 1%   | A80, A81, A95, A97, A107         | <b>KOA Speer</b> metal film<br>MF1/4DC1004F       | 660-MF1/4DC1004F     |
|   |         |                                  | <b>Xicon</b> 271-1.0M-RC                          | 271-1.0M-RC          |
| 1 | 1.5M 1% | A108                             | <b>KOA Speer</b> metal film<br>MF1/4DC1504F       | 660-MF1/4DC1504F     |
|   |         |                                  | <b>Xicon</b> 271-1.5M-RC                          | 271-1.5M-RC          |
| 4 | 2.2M 1% | A96, A106, A122, A126            | <b>Xicon</b> 271-2.2M-RC                          | 271-2.2M-RC          |
| 2 | 3.3M 1% | A5, A25                          | <b>Xicon</b> 3.3M-RC                              | 270-3.3M-RC          |
| 1 | 6.8M 1% | A32                              |                                                   |                      |
| 6 | 10M 1%  | A92, A93, A104, A105, A119, A120 | <b>Yageo</b> MFR-25FTE52-10M                      | 603-MFR-25FTE52-10M  |

## CAPACITORS

|   |                               |                              |                                                              |                     |
|---|-------------------------------|------------------------------|--------------------------------------------------------------|---------------------|
| 4 | 30pF                          | A88, A90, A103, A158         |                                                              |                     |
| 2 | 47pF                          | A99, A157                    | <b>TDK</b> COG (NP0)<br>FK28C0G1H470J                        | 810-FK28C0G1H470J   |
|   |                               |                              | <b>Cornell Dubilier</b> mica<br>CD5EC470J03                  | 5982-5-300V47       |
| 1 | 150pF                         | A23                          | <b>TDK</b> COG (NP0)<br>FK28C0G1H151J                        | 810-FK28C0G1H151J   |
| 4 | 47nF (=0.047uF)               | A83, A100, A114, A116        | <b>TDK</b> COG (NP0)<br>FK26C0G1H473J                        | 810-FK26C0G1H473J   |
|   |                               |                              | <b>Epcos</b> MKT<br>B32529C1473J189                          | 871-B32529C1473J189 |
| 6 | 100nF (=0.1uF)                | A21, A57, A58, A82, A85, C13 | <b>TDK</b> COG (NP0)<br>FK26C0G1H104J                        | 810-FK26C0G1H104J   |
|   |                               |                              | <b>Epcos</b> MKT B32529C104J289                              | 871-B32529C104J289  |
|   |                               |                              | <b>Kemet</b> R82DC3100AA50J                                  | 80-R82DC3100AA50J   |
|   |                               |                              | <b>TDK</b> COG (NP0) 2.5mm<br>FK11C0G1H104J                  | 810-FK11C0G1H104J   |
|   |                               |                              | <b>Kemet</b> C1206C104K5RACTU                                | 80-C1206C104K5R     |
| 2 | 220nF (=0.22uF)               | A13, A38                     | <b>TDK</b> X7R FK18X7R1H224K                                 | 810-FK18X7R1H224K   |
|   |                               |                              | <b>Epcos</b> MKT B32529C224J                                 | 871-B32529C224J     |
| 3 | 1000nF (=1uF)<br>electrolytic | C1, C2, C4                   | <b>TDK</b> X7R FK26X7R1H105K                                 | 810-FK26X7R1H105K   |
|   |                               |                              | <b>AVX</b> tantalum 10% 50V<br>2.5mm TAP105K050SRW           | 581-TAP105K050SRW   |
|   |                               |                              | <b>Kemet</b> tantalum 5% 35V<br>5.08mm<br>T353A105J035AT7301 | 80-T353A105J35AT-TR |
| 2 | 10uF electrolytic             | C5, C6                       | <b>Nichicon</b> electrolytic, audio<br>grade UFG1H100MDM     | 647-UFG1H100MDM     |
|   |                               |                              | <b>Epcos</b> electrolytic<br>B41827A6106M000                 | 871-B41827A6106M000 |
|   |                               |                              | <b>AVX</b> tantalum 5% 35V<br>2.5mm \$\$ TAP106J035SCS       | 581-TAP106J035SCS   |
| 1 | 47uF electrolytic             | C3                           | <b>Epcos</b> electrolytic<br>B41827A5476M000                 | 871-B41827A5476M000 |
|   |                               |                              | <b>Nichicon</b> UKL1H470KPDANA                               | 647-UKL1H470KPDANA  |

SEMI'S

|    |        |                                                                                                                   |
|----|--------|-------------------------------------------------------------------------------------------------------------------|
| 1  |        | U0                                                                                                                |
| 22 | 1N4148 | A14, A15, A16, A33, A45, A46, A47, A48, A55, A56, A63, A64, A65, A66, A67, A68, A98, A111, A112, A124, A125, A132 |
| 2  | 2N4250 | A17, A31                                                                                                          |
| 1  | DZ     | A159                                                                                                              |
| 2  | LM3080 | U1, U3                                                                                                            |
| 2  | LM3900 | U7, U8                                                                                                            |
| 4  | TL072  | U2, U4, U5, U6                                                                                                    |

MISC.

|   |                        |                                  |                |
|---|------------------------|----------------------------------|----------------|
| 1 | MTA-156 connector 4Pin | TE Connectivity 22AWG 3-640428-4 | 571-3-640428-4 |
| 1 | MTA-156 header 4Pin    | TE Connectivity 640445-4         | 571-640445-4   |