



LEAD FREE COMPONENTS

Sept 18, 00

11731 Markon Dr. Garden Grove, Ca 92841 USA

Tel 1-714-898-3830 Fax 1-714-891-0321

email sales@topline.tv

| Type | Nbr Leads | Body Size | Pitch | Lead Material | Tray Qty | TopLine Part# | Daisy Chain | Die | TopLine DP# |
|--------------|-----------|-----------|---------|---------------|-----------|----------------------|-------------|-----|-------------|
| BGA | 46 | 5.8x7.9 | 0.75mm | Sn96.5/Ag3.5 | 99 | CSP46T.75F-DC24 | yes | yes | 156492 |
| | 46 | 5.8x7.9 | 0.75mm | 0.5Cu | 99 | CSP46T.75C-DC24 | yes | yes | 156753 |
| | 81 | 9mm | 0.8mm | Sn96.5/Ag3.5 | 348 | BGA81T.8F-ISO | no | no | 156369 |
| | 196 | 15mm | 1.0mm | Sn96.5/Ag3.5 | 126 | LBGA196T1.0F-DC149 | yes | no | 155154 |
| | 196 | 15mm | 1.0mm | Sn96.5/Ag3.5 | 126 | BGA196T1.0F-ISO | no | no | 156372 |
| | 225 | 27mm | 1.5mm | Sn96.5/Ag3.5 | 40 | LBGA225T1.5F-DC15 | yes | no | 155151 |
| | 256 | 27mm | 1.27mm | Sn96.5/Ag3.5 | 40 | LBGA256T1.27F-DC200A | yes | no | 155463 |
| | 352 | 35mm | 1.27mm | Sn96.5/Ag3.5 | 24 | LBGA352T1.27F-DC70 | yes | no | 155937 |
| | 357 | 25mm | 1.27mm | Sn96.5/Ag3.5 | 44 | LBGA357T1.27F-DC73 | yes | no | 156267 |
| | 400 | 21mm | 1.0mm | Sn96.5/Ag3.5 | 60 | LBGA400T1.0F-DC209 | yes | no | 156603 |
| | 400 | 35mm | 1.5mm | Sn96.5/Ag3.5 | 24 | LBGA400T1.5F-DC20 | yes | no | 155943 |
| | 1225 | 45mm | 1.27mm | Sn96.5/Ag3.5 | 12 | LBGA1225T1.27F-DC359 | yes | no | 155946 |
| FlipChip | 48 | 6.3mm | 457um | Sn96.5/Ag3.5 | 25 | GFC48D6.3F457 | yes | no | 156273 |
| | 48 | 6.3mm | 457um | Sn96.5/Ag3.5 | 25 | CFC48D6.3F457 | yes | no | 156270 |
| QFP | 48 | 14mm | 0.8mm | Ni-Pd | 84 | QFP48/64T.8F-DE | no | no | 156768 |
| | 208 | 28mm | 0.5mm | Ni-Pd | 24 | QFP208T19.7F-DE-DIE | yes | yes | 155931 |
| | 208 | 28mm | 0.5mm | Ni-Pd | 24 | QFP208T19.7F-DIE | no | yes | 155934 |
| | 208 | 28mm | 0.5mm | Ni-Pd | 24 | QFP208T19.7F-DE | yes | no | 155508 |
| | 208 | 28mm | 0.5mm | Ni-Pd | 24 | QFP208T19.7F-2.6 | no | no | 155319 |
| SOIC | 16 | 6.8x7.1mm | 0.8mm | Ni-Pd | Reel 1K | PFP16E13A30F | no | no | 156312 |
| | 16 | 6.8x7.1mm | 0.8mm | Ni-Pd | Tube 68 | PFP16M30F | no | no | 155826 |
| | 20 | 11x16mm | 1.27mm | Ni-Pd | Tube 30 | HSOP20M-F-DE | yes | no | 156606 |
| | 30 | 11x16mm | 0.8mm | Ni-Pd | Tube 30 | HSOP30M30F | no | no | new |
| Leadless CSP | 28 | 5mm | 0.5mm | Ni-Pd | Tube 99 | MCC28M.5F-DE | yes | no | 156621 |
| Through Hole | 14 | 300 mil | 100 mil | Ni-Pd | Tube 25 | DIP14M3F-DE | yes | no | 156612 |
| | 15 | 300 mil | 50 mil | Ni-Pd | Tube 25 | HSIP15M-F | no | no | 156771 |
| | 16 | 300 mil | 100 mil | Ni-Pd | Tube 25 | DIP16M3F-DE | yes | no | 156600 |
| | 16 | 300 mil | 100 mil | Ni-Pd | Tube 29 | SOCKET-DIP16M3-GOLD | no | no | 156666 |
| SOT | 3 | SOT-23 | | Sn100/A42 | Reel 3000 | SOT23E7A-DC13-TIN | yes 1-3 | no | 155754 |
| | 3 | SOT-23 | | Sn100/A42 | Reel 3000 | SOT23E7A-DC23-TIN | yes 2-3 | no | 155757 |



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| Type | Nbr Leads | Body Size | Pitch | Lead Material | Tray Qty | TopLine Part# | Daisy Chain | Die | TopLine DP# |
|----------|-----------|-----------|-------|---------------|------------|--------------------------|-------------|-----|-------------|
| Caps | 0402 | 1.0X0.5mm | - | Sn | Reel 10000 | SC0402P7A-TIN | no | n/a | 156570 |
| | 0603 | 1.6X0.8mm | - | Sn | Reel 4000 | SC0603E7A-TIN | no | n/a | 155280 |
| | 0805 | 2.0X1.2mm | - | Sn | Reel 4000 | SC0805E7A-TIN | no | n/a | 155283 |
| | 1206 | 3.2X1.6mm | - | Sn | Reel 4000 | SC1206E7A-TIN | no | n/a | 155286 |
| | 1210 | 3.2X2.5mm | - | Sn | Reel 4000 | SC1210E7A-TIN | no | n/a | 155289 |
| | 1812 | 4.5X3.2mm | - | Sn | Reel 1000 | SC1812E7A-TIN | no | n/a | 155292 |
| Resistor | 0402 | 1.0X0.5mm | - | Sn100 | Reel 10000 | SR0402P7A-TIN | no | yes | 040200 |
| | 0402 | 1.0X0.5mm | - | Sn100 | Reel 10000 | SR0402P7A-ZERO OHM -TIN | yes | yes | 156498 |
| | 0603 | 1.6X0.8mm | - | Sn100 | Reel 5000 | SR0603P7A-TIN | no | n/a | 060300 |
| | 0603 | 1.6X0.8mm | - | Sn100 | Reel 5000 | SR0603P7A-ZERO OHM -TIN | yes | n/a | 156534 |
| | 0805 | 2.0X1.2mm | - | Sn100 | Reel 5000 | SR0805P7A-ZERO OHM-TIN | yes | yes | 202150 |
| MELF | 0805 | 2.0X1.2mm | - | Sn100 | Reel 3000 | SRM0805E7A-TIN | no | yes | 156501 |
| | 0805 | 2.0X1.2mm | - | Sn100 | Reel 3000 | SRM0805E7A-ZERO OHM-TIN | yes | yes | 202150 |
| | 1206 | 3.2X1.6mm | - | Sn100 | Reel 3000 | SRM1206E7A-TIN | no | yes | 156504 |
| | 1206 | 3.2X1.6mm | - | Sn100 | Reel 3000 | SRM1206E7A-ZERO OHM- TIN | yes | yes | 118954 |
| | 2308 | 5.9x2.2mm | - | Sn100 | Reel 1500 | SRM2308E7A-TIN | no | yes | 156507 |
| | 2308 | 5.9x2.2mm | - | Sn100 | Reel 1500 | SRM2308E7A-ZERO OHM-TIN | no | yes | 240785 |