

# CTS Resistor Networks and Arrays



CTS provides customers with platform-based engineered components and modules, and related products, utilizing our expertise in RF design, filtering, frequency control, electromechanical, ceramic and ball-grid array technologies, and our knowledge of customer applications.

## CTS CHIP RESISTOR ARRAYS

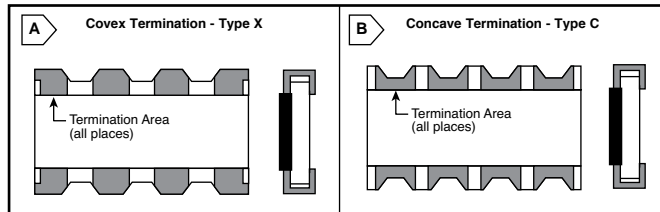
- Features:**
- Thick film technology
  - High density packaging
  - Leadless surface mount construction
  - Tape and reel packaging
  - Solder coated nickel barrier pads
  - Operating temperature range: -55°C to +125°C



RoHS Compliant

For quantities greater than listed, call for quote.

| MOUSER STOCK NO.    |        |    | Fig. | No. of Resistors | No. of Pads | Price Each |     |  |
|---------------------|--------|----|------|------------------|-------------|------------|-----|--|
| Value               | Suffix | 1  |      |                  |             | 50         | 100 |  |
| <b>Convex Term</b>  |        |    |      |                  |             |            |     |  |
| 774-740X043         | Code   | JP | A    | 2                | 4           |            |     |  |
| 774-741X043         | Code   | JP | A    | 2                | 4           |            |     |  |
| 774-741X083         | Code   | JP | A    | 4                | 8           |            |     |  |
| 774-746X101         | Code   | JP | A    | 8                | 10          |            |     |  |
| 774-741X163         | Code   | JP | A    | 8                | 16          |            |     |  |
| <b>Concave Term</b> |        |    |      |                  |             |            |     |  |
| 774-742C043         | Code   | JP | B    | 2                | 4           |            |     |  |
| 774-743C043         | Code   | JP | B    | 2                | 4           |            |     |  |
| 774-744C043         | Code   | JP | B    | 2                | 4           |            |     |  |
| 774-741C083         | Code   | JP | B    | 4                | 8           |            |     |  |
| 774-742C083         | Code   | JP | B    | 4                | 8           |            |     |  |
| 774-743C083         | Code   | JP | B    | 4                | 8           |            |     |  |
| 774-744C083         | Code   | JP | B    | 4                | 8           |            |     |  |
| 774-745C101         | Code   | JP | B    | 8                | 10          |            |     |  |
| 774-742C163         | Code   | JP | B    | 8                | 16          |            |     |  |



### Standard Resistor Values and Codes

| Ohms | Code | Ohms | Code | Ohms | Code | Ohms | Code | Ohms | Code |
|------|------|------|------|------|------|------|------|------|------|
| 0    | 000X | 82   | 820  | 820K | 821  | 10K  | 103  | 120K | 124  |
| 10   | 100  | 100  | 101  | 1K   | 102  | 12K  | 123  | 150K | 154  |
| 12   | 120  | 110  | 111  | 1.2K | 122  | 15K  | 153  | 180K | 184  |
| 15   | 150  | 120  | 121  | 1.5K | 152  | 18K  | 183  | 220K | 224  |
| 18   | 180  | 150  | 151  | 1.8K | 182  | 22K  | 223  | 270K | 274  |
| 22   | 220  | 180  | 181  | 2.2K | 222  | 27K  | 273  | 330K | 334  |
| 27   | 270  | 220  | 221  | 2.7K | 272  | 33K  | 333  | 390K | 394  |
| 33   | 330  | 270  | 271  | 3.3K | 332  | 39K  | 393  | 470K | 474  |
| 39   | 390  | 330  | 331  | 3.9K | 392  | 47K  | 473  | 510K | 514  |
| 47   | 470  | 390  | 391  | 4.7K | 472  | 51K  | 513  | 560K | 564  |
| 51   | 510  | 470  | 471  | 5.1K | 512  | 56K  | 563  | 680K | 684  |
| 56   | 560  | 510  | 511  | 5.6K | 562  | 68K  | 683  | 820K | 824  |
| 68   | 680  | 560  | 561  | 6.8K | 682  | 82K  | 823  | 1M   | 105  |
| 75   | 750  | 680  | 681  | 8.2K | 822  | 100K | 104  |      |      |

\*Note: Series 745 33Ω to 470KΩ Series 746 33Ω to 100KΩ

Networks / Arrays

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## CTS 766 AND 767 SERIES SMD RESISTOR NETWORKS

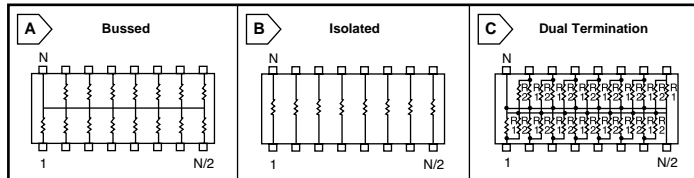
- Features:**
- Solid ceramic construction
  - No internal dendrite growth
  - Meets EIA PDP SOGN-001 outline
  - Compatible with reflow solder process
  - Operating temperature range: -55°C to +125°C



RoHS Compliant

For quantities of 500 and up, call for quote.

| MOUSER STOCK NO.       |        |    | Fig. | No. of Pins | Price Each |     |     |  |
|------------------------|--------|----|------|-------------|------------|-----|-----|--|
| Value                  | Suffix | 1  |      |             | 10         | 100 | 250 |  |
| <b>Bussed</b>          |        |    |      |             |            |     |     |  |
| 774-766141             | Code   | GP | A    | 14          |            |     |     |  |
| 774-766161             | Code   | GP | A    | 16          |            |     |     |  |
| 774-767141             | Code   | GP | A    | 14          |            |     |     |  |
| 774-767161             | Code   | GP | A    | 16          |            |     |     |  |
| <b>Isolated</b>        |        |    |      |             |            |     |     |  |
| 774-766143             | Code   | GP | B    | 14          |            |     |     |  |
| 774-766163             | Code   | GP | B    | 16          |            |     |     |  |
| 774-767143             | Code   | GP | B    | 14          |            |     |     |  |
| 774-767163             | Code   | GP | B    | 16          |            |     |     |  |
| <b>Dual Terminator</b> |        |    |      |             |            |     |     |  |
| 774-766145             | Code   | AP | C    | 14          |            |     |     |  |
| 774-766165             | Code   | AP | C    | 16          |            |     |     |  |
| 774-767145             | Code   | AP | C    | 14          |            |     |     |  |
| 774-767165             | Code   | AP | C    | 16          |            |     |     |  |



### Standard Resistor Values and Codes

| Ohms | Code | Ohms | Code | Ohms | Code | Ohms | Code | Ohms | Code | Dual Terminator Values and Codes |     |      |
|------|------|------|------|------|------|------|------|------|------|----------------------------------|-----|------|
| 10   | 100  | 110  | 111  | 1K   | 102  | 10K  | 103  | 120K | 124  | 183/390                          | 120 | 121A |
| 12   | 120  | 120  | 121  | 1.2K | 122  | 12K  | 123  | 150K | 154  |                                  |     |      |
| 15   | 150  | 150  | 151  | 1.5K | 152  | 15K  | 153  | 180K | 184  | 220/330                          | 130 | 131A |
| 18   | 180  | 180  | 181  | 1.8K | 182  | 18K  | 183  | 200K | 204  |                                  |     |      |
| 22   | 220  | 200  | 201  | 2K   | 202  | 20K  | 203  | 220K | 224  | 330/390                          | 180 | 181A |
| 27   | 270  | 220  | 221  | 2.2K | 222  | 22K  | 223  | 270K | 274  |                                  |     |      |
| 33   | 330  | 270  | 271  | 2.7K | 272  | 27K  | 273  | 330K | 334  | 330/470                          | 190 | 191A |
| 39   | 390  | 330  | 331  | 3.3K | 332  | 33K  | 333  | 390K | 394  |                                  |     |      |
| 47   | 470  | 390  | 391  | 3.9K | 392  | 39K  | 393  | 470K | 474  |                                  |     |      |
| 51   | 510  | 470  | 471  | 4.7K | 472  | 47K  | 473  | 560K | 564  |                                  |     |      |
| 56   | 560  | 510  | 511  | 5.1K | 512  | 56K  | 563  | 680K | 684  |                                  |     |      |
| 68   | 680  | 560  | 561  | 5.6K | 562  | 68K  | 683  | 820K | 824  |                                  |     |      |
| 82   | 820  | 680  | 681  | 6.8K | 682  | 82K  | 823  | 1M   | 105  |                                  |     |      |
| 100  | 101  | 820  | 821  | 8.2K | 822  | 100K | 104  |      |      |                                  |     |      |

## ClearONE RT SERIES BGA TERMINATORS

Designed with a ceramic substrate, this device minimizes channel capacitance, a primary cause of reduced system performance. In addition, the BGA package eases routing design, saving the designer many hours of printed circuit layout.

### Compact PCI Features:

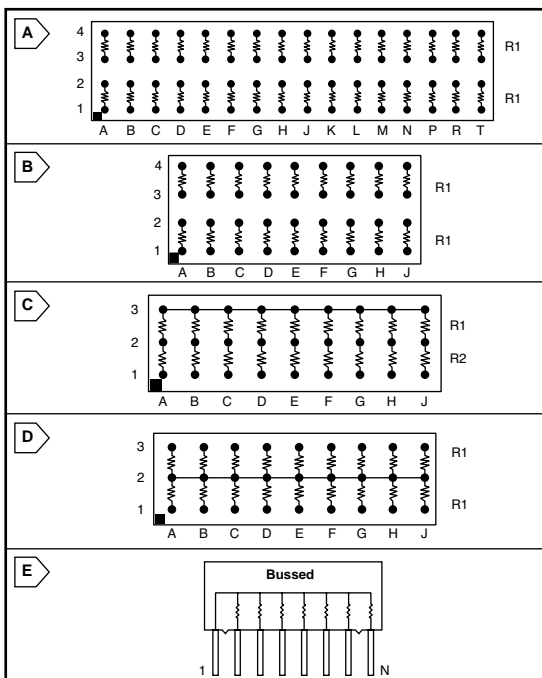
- Ultra low I/O coupling
- Slim BGA package
- 10 Ω Trimmed resistance to 5%
- 1% Resistor tolerance

### DDR SDRAM Features:

- Compliant to JEDEC std. 8-9A
- Excellent high frequency performance
- Slim BGA package
- Low channel capacitance

For quantities of 1000 and up, call for quote.

| MOUSER STOCK NO.   | CTS Part No. | Fig. | Bits | Value (Ω) |    | Array Size | Pitch (mm) | Price Each |    |     |     |
|--------------------|--------------|------|------|-----------|----|------------|------------|------------|----|-----|-----|
|                    |              |      |      | R1        | R2 |            |            | 1          | 10 | 100 | 500 |
| <b>Compact PCI</b> |              |      |      |           |    |            |            |            |    |     |     |
| 774-RT1201B7TR7    | RT1201B7TR7  | A    | 32   | 10        | -  | 4 x 16     | 1.00       |            |    |     |     |
| <b>DDR SDRAM</b>   |              |      |      |           |    |            |            |            |    |     |     |
| 774-RT1404B7TR7    | RT1404B7TR7  | B    | 18   | 25        | -  | 4 x 9      | 1.00       |            |    |     |     |
| 774-RT1400B7TR7    | RT1400B7TR7  | C    | 18   | 50        | 25 | 3 x 9      | 1.00       |            |    |     |     |
| 774-RT1402B7TR7    | RT1402B7TR7  | D    | 18   | 50        | -  | 3 x 9      | 1.00       |            |    |     |     |



## CTS THRU HOLE SIP RESISTOR NETWORKS

### Compact PCI Features:

- High-reliability cermet resistors
- Space saving over individual resistors

- 2.54mm / .100 in. pin spacing
- Operating temperature: -55°C to +125°C



RoHS Compliant

For quantities of 1000 and up, call for quote.

| MOUSER STOCK NO. | CTS Part No. | Fig. | Value (Ω) | Tol. | No. of Pins | Price Each |    |     |     |
|------------------|--------------|------|-----------|------|-------------|------------|----|-----|-----|
|                  |              |      |           |      |             | 1          | 10 | 100 | 500 |
| 774-770101103P   | 770101103P   | E    | 10K       | 2%   | 10          |            |    |     |     |
| 774-770101472P   | 770101472P   | E    | 4.7K      | 2%   | 10          |            |    |     |     |