## Thin Film Resistor Networks

| Ultra Precision Thin Film - Ceramic |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
| Model | NQS | 664/667/668 | 688 | 694/698/699 |
| Number of Leads | 16/20/24 | 8/14/16 | 16 | 8/16/14 |
| Available Circuit Type | A, B | A, B | A, B | -3, -1 |
| Dimensions, Inches |  |  |  |  |
| Body Length, Maximum | 0.196/0.344/0.344 | 0.196/0.344/0.393 | 0.413 | 0.375/0.760/0.760 |
| Height Off Board, Maximum | 0.068 | 0.068 | 0.104 | 0.2 |
| Body Style/Width | (QSOP) 0.157 | (SOICN) 0.157 | (SOICW) 0.300 | (PDIP) 0.300 |
| Resistance | (1) | $\square$ |  |  |
| Range, Ohms | 10 to 140K | 10 to 275 K | 10 to 275 K | 10 to 275K |
| Tolerance (\%) | $\pm 0.1$ | $\pm 0.1$ | $\pm 0.1$ | $\pm 0.1$ |
| Temp. Coefficient, ppm/ ${ }^{\circ} \mathrm{C}$ | $\pm 25$ | $\pm 25$ | $\pm 25$ | $\pm 25$ |
| Temp. Coefficient Tracking, ppm/ ${ }^{\circ} \mathrm{C}$ | $\pm 5$ | $\pm 5$ | $\pm 5$ | $\pm 5$ |
| Power Rating, Watts at $70{ }^{\circ} \mathrm{C}$ | K7 ${ }^{\text {N }}$ | T |  |  |
| Per Resistor | 0.1 | 0.1 | 0.1 | 0.1 |
| Per Package | $\begin{aligned} & \text { NQS16 }=0.8 \\ & \text { NQS20/24 = } 1.0 \end{aligned}$ | $\begin{aligned} & 664=0.4 \\ & 667 / 668=0.8 \end{aligned}$ | 1 | $\begin{aligned} & 694=0.4 \\ & 698 / 699=0.6 \end{aligned}$ |
| Packaging Options |  |  |  |  |
| Tubes | $\begin{aligned} & \text { NQS20/24 =56 } \\ & \text { NQS16 }=100 \end{aligned}$ | $\begin{aligned} & 664=100 \\ & 667 / 668=50 \end{aligned}$ | 50 | $\begin{aligned} & 694=50 \\ & 698 / 699=25 \end{aligned}$ |
| Tape \& Reel: 7" | $1000$ | $\begin{aligned} & 664=1000 \\ & 667 / 668=500 \end{aligned}$ | $500$ |  |
| Tape \& Reel: 13" | 2500 | 2500 | 1500 |  |
| Vial | IT | 1007 |  |  |

Ordering Information


勝 特 力 材 料 886－3－5753170胜特力电子（上海）86－21－54151736胜特力电子（深圳）86－755－83298787 Http：／／www．100y．com．tw


Precision Thin Film－Silicon


| SQS | SSN | SSW | SPD | SS1 |
| :---: | :---: | :---: | :---: | :---: |
| 16，20，24 | 8，14，16 | 16，18，20 | 8，14，16 | 3 |
| A，B，D，D1，G，H，L，N，V | A，B，D，D1，L，N，V | A，B，D，D1，L，V | A，B，L | VD |
| 0．196／0．344／0．344 | 0．196／0．344／0．393 | 0．406／0．459／0．506 | 0．375／0．760／0．760 | 0.119 |
| 0.068 | 0.068 | 0.104 | 0.2 | 0.044 |
| （QSOP） 0.157 | （SOICN） 0.157 | （SOICW） 0.300 | （PDIP） 0.300 | （SOT23） 0.096 |
| 10 to 250k | 10 to 250k | 10 to 250k | 10 to 250k | 1k to 50k |
| $\pm 0.1$ | $\pm 0.1$ | $\pm 0.1$ | $\pm 0.1$ | $\pm 0.1$ |
| $\pm 25$ | $\pm 25$ | $\pm 25$ | $\pm 25$ | $\pm 25$ |
| $\pm 5$ | $\pm 5$ | $\pm 5$ | $\pm 5$ | $\pm 5$ |
| 0.1 | 0.1 | 0.1 | 0.1 | 0.1 |
| $\begin{aligned} & \text { SQS16 }=0.8 \\ & \text { SQS20/24 = } 1.0 \end{aligned}$ | $\begin{aligned} & \text { SSN8 }=0.4 \\ & \text { SSN14/16 }=0.8 \end{aligned}$ | $1.0$ | $\begin{aligned} & \text { SPD8 }=0.4 \\ & \text { SPD14/16 }=0.6 \end{aligned}$ | 0.2 |
| $\begin{aligned} & \text { SQS16 }=100 \\ & \text { SQS20/SQS24 }=50 \end{aligned}$ | $\begin{aligned} & \text { SSN8 }=100 \\ & \text { SSN14/SSN16 }=50 \end{aligned}$ |  | $\begin{aligned} & \text { SPD8 }=50 \\ & \text { SPD14/SPD16 }=25 \end{aligned}$ |  |
| 1000 | $\begin{aligned} & \text { SSN8 }=1000 \\ & \text { SSN14/16 }=500 \end{aligned}$ | $500$ |  |  |
| 2500 | 2500 | $1500$ |  |  |
|  |  |  | $x_{2}$ | 500 |

## Schematics



