

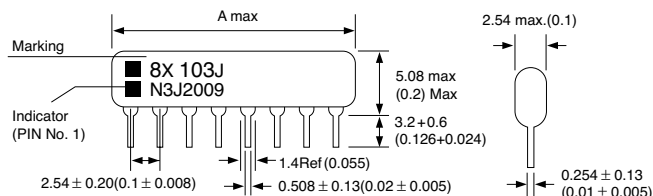
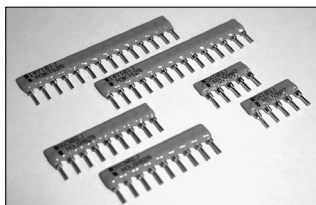
# ANR SERIES

## THICK FILM RESISTOR NETWORKS

### ■ DIMENSIONS mm(Inch)

| NO. PINS | A(mm)                           |
|----------|---------------------------------|
| 4-14     | 2.54 × P<br>(P: Number of Pins) |

\*Body color: yellow gold



### ■ POWER RATINGS

| Circuit Type | Rated Power at Element | Max. Working Voltage | Max. Overload Voltage | Resistance Range | Resistance Tolerance                          | Rating Ambient Temp. | Operating Range |
|--------------|------------------------|----------------------|-----------------------|------------------|---|----------------------|-----------------|
| Y            | 200mW                  | 100V                 | 150V                  | 22Ω ~ 1MΩ        | E-96-F: ± 1%, E-24-J: ± 5%, K: ± 10%, G: ± 2% | +70°C                | -55°C ~ +125°C  |
| L            | 30mW                   |                      |                       |                  |   |                      |                 |
| Other        | 125mW                  |                      |                       |                  |   |                      |                 |

### ■ CIRCUITS CONSTRUCTION

| Circuit Symbol       | X               | Y               | C               |
|----------------------|-----------------|-----------------|-----------------|
| Number of Pins       | 4-14            | 4-14            | 4-14            |
| Circuit Construction |                 |                 |                 |
| Type Designation     | ANR 8X 472J     | ANR 8Y 472J     | ANR 8C 472J     |
| Circuit Symbol       | G               | H               | L               |
| Number of Pins       | 5-11            | 4-14            | 5-11            |
| Circuit Construction |                 |                 |                 |
| Type Designation     | ANR 8G 103/103J | ANR 8H 221/331J | ANR 8L 103/203J |

### ■ STANDARD RESISTANCE VALUES

| TYPE I | X · Y |     |     |     |     |     |      |    | H · (R1/R2) |         |
|--------|-------|-----|-----|-----|-----|-----|------|----|-------------|---------|
| R      | 22    | 100 | 330 | 1K2 | 3K9 | 12K | 82K  | 1M | 180/390     |         |
|        | 33    | 120 | 390 | 1K5 | 4K7 | 15K | 100K |    | 220/270     | 330/470 |
|        | 47    | 150 | 470 | 1K8 | 5K6 | 22K | 220K |    | 220/330     | 330/680 |
|        | 56    | 180 | 680 | 2K2 | 6K8 | 33K | 390K |    | 330/330     | 3K/6.2K |
|        | 68    | 220 | 820 | 2K7 | 8K2 | 47K | 470K |    |             |         |
|        | 82    | 270 | 1K  | 3K3 | 10K | 68K | 680K |    |             |         |

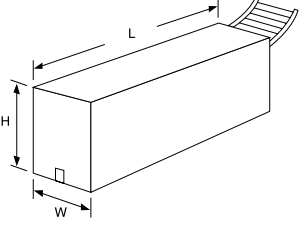
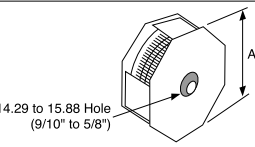
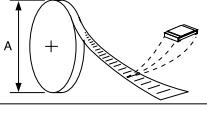
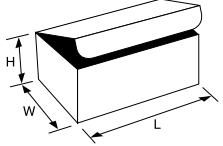
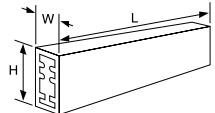
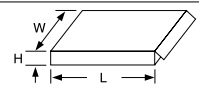
\* Other type of resistor network available

\*\* Custom configurations available.

### ■ HOW TO ORDER

| ANR                | 9                     | X                     | 472  | J   |
|--------------------|-----------------------|-----------------------|--|---|
| <b>Common Code</b> | <b>Number of Pins</b> | <b>Circuit Symbol</b> | <b>Nominal Resistance</b>  | <b>Tolerance</b>                              |
| Network Resistors  | 4-14 Pins             |                       | The first two digits are significant figures of resistance and the third one denotes number of zeros following | F : ± 1%<br>G : ± 2%<br>J : ± 5%<br>K : ± 10% |

# DETAILS PACKING

| Type  | Code  | Lead Style | Inner Box               |              | Type                             | Out Box                 |   | Remark             |
|---|-------|------------|-------------------------|--------------|----------------------------------|-------------------------|---|--------------------|
|   |       |            | Size(mm)<br>(W X H X L) | Q'ty         |                                  | Size(mm)<br>(W X H X L) | Q'ty                                    |                    |
|    | TA    | 26mm       | 50X105X270              | 5,000        | 1/8, 1/4                         | 270X240X400             | 80,000                                  |                    |
|   |       |            | 50X65X252               | 2,000        | AL02                             | 185X260X455             | 54,000                                  | 8.5kg              |
|   |       |            |                         |              | AL03                             |                         |   | 11kg               |
|   | TB    | 52mm       | 73X100X350              | 10,000       | 1/8                              | 330X170X380             | 60,000                                  |                    |
|   |       |            | 70X70X255               | 5,000        | 1/8, 1/6                         | 270X240X400             | 75,000                                  |                    |
|   |       |            | 75X110X255              | 5,000        | 1/4, 1/2S                        | 270X240X400             | 50,000                                  |                    |
|   |       |            |                         | 2,500        | 12                               |                         |   | 25,000             |
|   |       |            | 75X110X255              | 2,000        | 1S, FR1/2                        |                         |   | 25,000             |
|   |       |            | 70X110X355              | 2,500        | AL04                             | 330X260X485             | 30,000                                  | 6kg                |
|   |       |            | 70X110X355              | 2,000        | AL05                             | 330X260X485             | 30,000                                  | 10kg               |
| 70X85X265   |       |            | 2,500                   | AL03         | 285X305X455                      | 45,000                  | 7kg                                     |                    |
| 70X65X265   | 2,500 | AL02       | 285X250X455             | 45,000       | 6kg                              |                         |   |                    |
| 85X100X255  | 1,500 | 1.2S       | 270X230 X460            | 15,000       |                                  |                         |   |                    |
|   | 750   | 2.3S       |                         |              | 7,500                            |                         |   |                    |
|   | TR    | 64mm       | 280X280<br>(AXA)        | 5,000        | 1/8, 1/4 AL02                    | 460X320X600             | 50,000                                  | AL02(14kg)         |
|   |       |            |                         | 4,000        | 1/8, 1/4 AL03                    |                         | 40,000                                  | AL03(14kg)         |
|   |       |            |                         | 2,500        | 1/2. mini 1 AL04                 |                         | 25,000                                  | AL04(16kg)         |
|  | TR    |            | ø178mm                  | 5,000        | ATR 0402, 0603, 0805, 1206, 1210 | 195X 200 X265           | 100,000                                 |                    |
|  | BF    | M-FORMED   | 155X95X225              | 3,000        | 1, mini 2                        | 280 X255 X460           | 21,000                                  | 30pcs per Poly Bag |
|   |       |            |                         |              | 1,500                            |                         | 2, mini 3                               | 10,500             |
|   | BS    | BULK       |                         | 3,000        | 1, mini 2                        |                         | 21,000                                  | 30pcs per Poly Bag |
|   |       |            |                         | 1,000        | 2, mini 3                        |                         | 7,000                                   | 15pcs per Poly Bag |
|   |       |            |                         | 1,500        | WRP 1                            |                         | 24,000                                  | 30pcs per Poly Bag |
|   |       |            |                         | 350          | WRP 2, 3                         |                         | 12,000                                  | 15pcs per Poly Bag |
|   | BP    | BULK       | 140X65X215              | 500          | 2P                               | 290X260X460             | 8,000                                   | Power Type         |
|   |       |            |                         | 300          | 2R, 3R                           |                         | 4,800                                   |                    |
|   |       |            |                         | 200          | 3P, 5P, 5R                       |                         | 3,200                                   |                    |
|   |       |            |                         | 100          | 7P, 10P, 7V                      |                         | 1,600                                   |                    |
| 225   |       |            |                         | 5M           | 3,600                            |                         |   |                    |
| 5,000   |       |            |                         | ANR, 4P, 5P  | 80,000                           |                         | Be changed<br>per R-Networks<br>of Pins |                    |
| 3,000   |       |            |                         | ANR, 6P~9P   | 48,000                           |                         |   |                    |
| 2,000   |       |            |                         | ANR, 10P~14P | 32,000                           |                         |   |                    |
|   |       |            |                         |              |                                  |                         |   |                    |
|  | RS    | STICK      | 50X250X335              | 750          | 3RT                              | 270X280X340             | 3,750                                   |                    |
|   |       |            | 50X125X330              | 1,500        | 1.2SRT                           | 350X280X560             | 30,000                                  |                    |
|   | RT    | STICK      | 9.8X 29X580             | 48           | 2.3RT                            | 155X110X600             | 2,400                                   |                    |
|  | RD    | M-FORMED   | 187X40X325              | 2,000        | RD35                             | 340X255X580             | 36,000                                  | 12kg               |
|   |       |            |                         | 1,000        | RD40                             |                         | 18,000                                  | 10kg               |
|   |       |            |                         | 1,500        | RD45                             |                         | 27,000                                  | 18kg               |