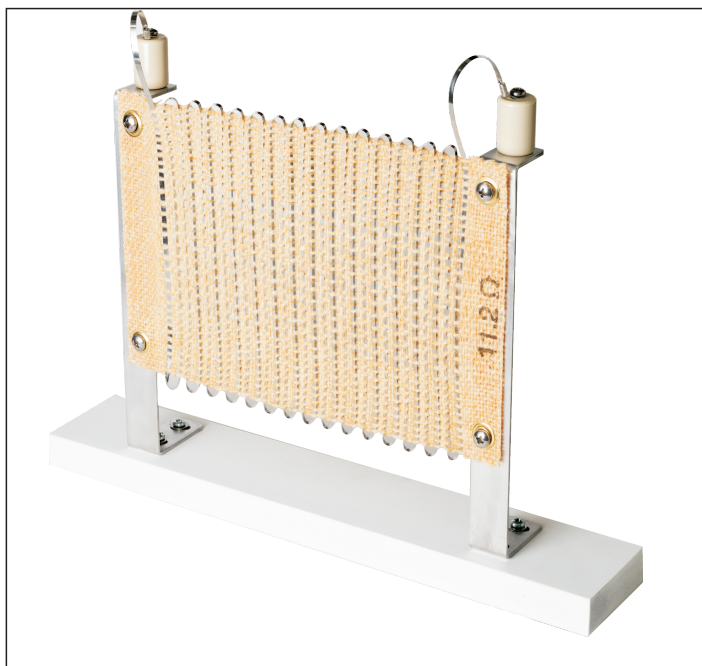




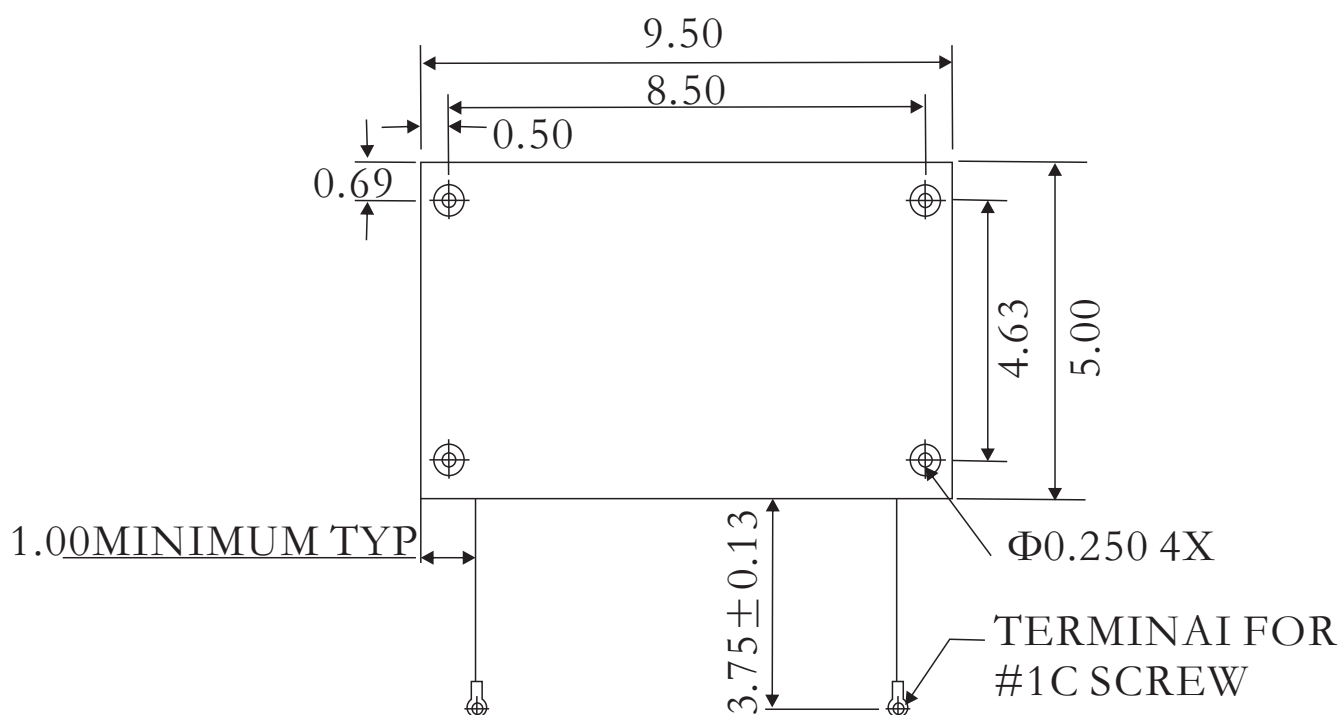
KWX woven resistors are the highest power per weight or volume resistors on the market. They achieve high wattages without the need of a heat sink. The unique design maximizes surface area while minimizing thermal mass, allowing unimpeded convection and radiation away from the resistor surface.

KWX power resistors are woven with a resistance alloy wire and high temperature yarn to allow high heat dissipation in a slim configuration. They work well in AC, DC or pulsed applications and can carry voltages up to 20kV. Resistor cages are available for mounting resistors in series or parallel.

## ● Features

- No Heat Sink Required
- High Power/Size Ratio
- Light Weight
- High Voltage

## ● Dimensions (inch)



## ● Ordering Information

Example:

|             |              |                      |            |
|-------------|--------------|----------------------|------------|
| WPR         | 1000         | J                    | 10R20      |
| (1)         | (2)          | (3)                  | (4)        |
| Series Name | Power Rating | Resistance Tolerance | Resistance |

(1)Type: WPR SERIES

(2)Power Rating: 400=400W(Watts in ambient air),1000=1000W(watts with fan)

(3)Tolerance: G=±2, J=±5%,K=±10%

(4)Resistance Value:10R20=10.2Ω

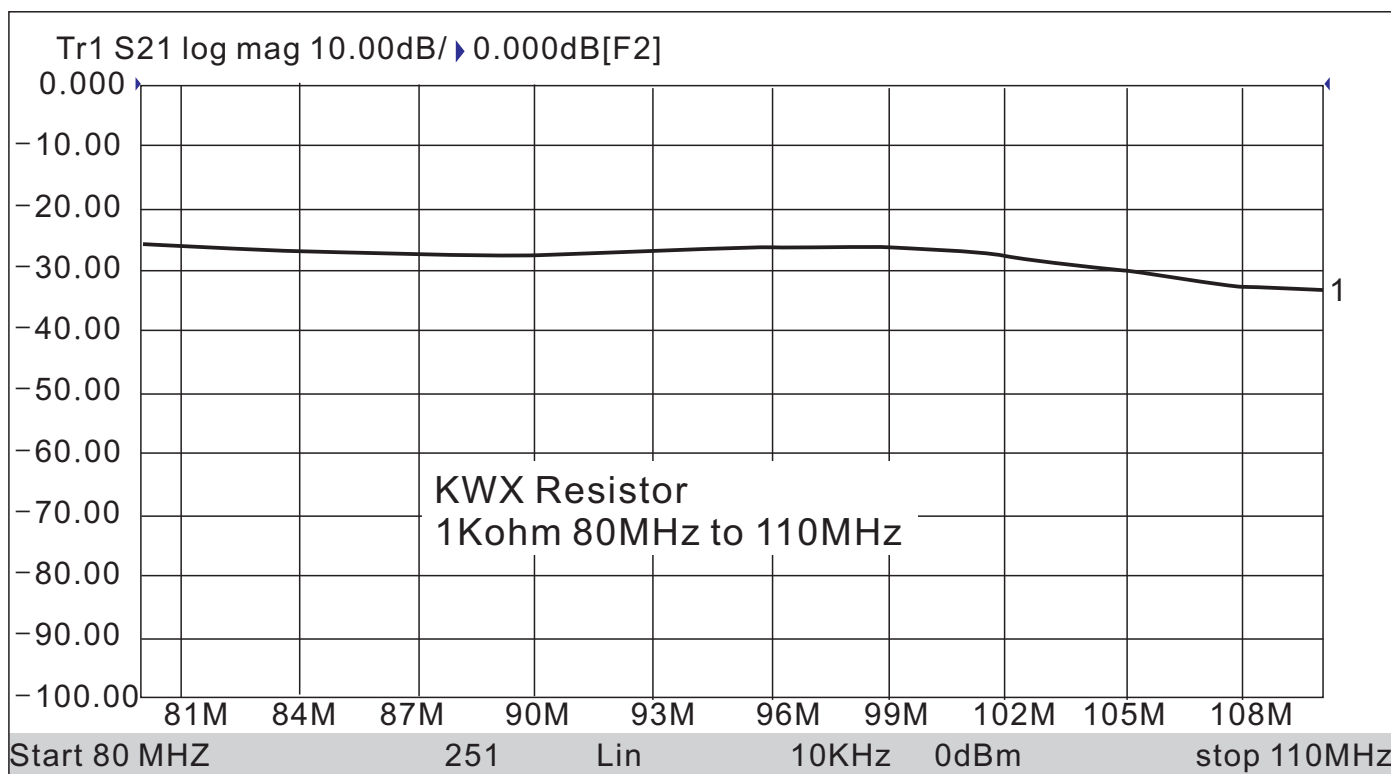
## ● Applications And Ratings

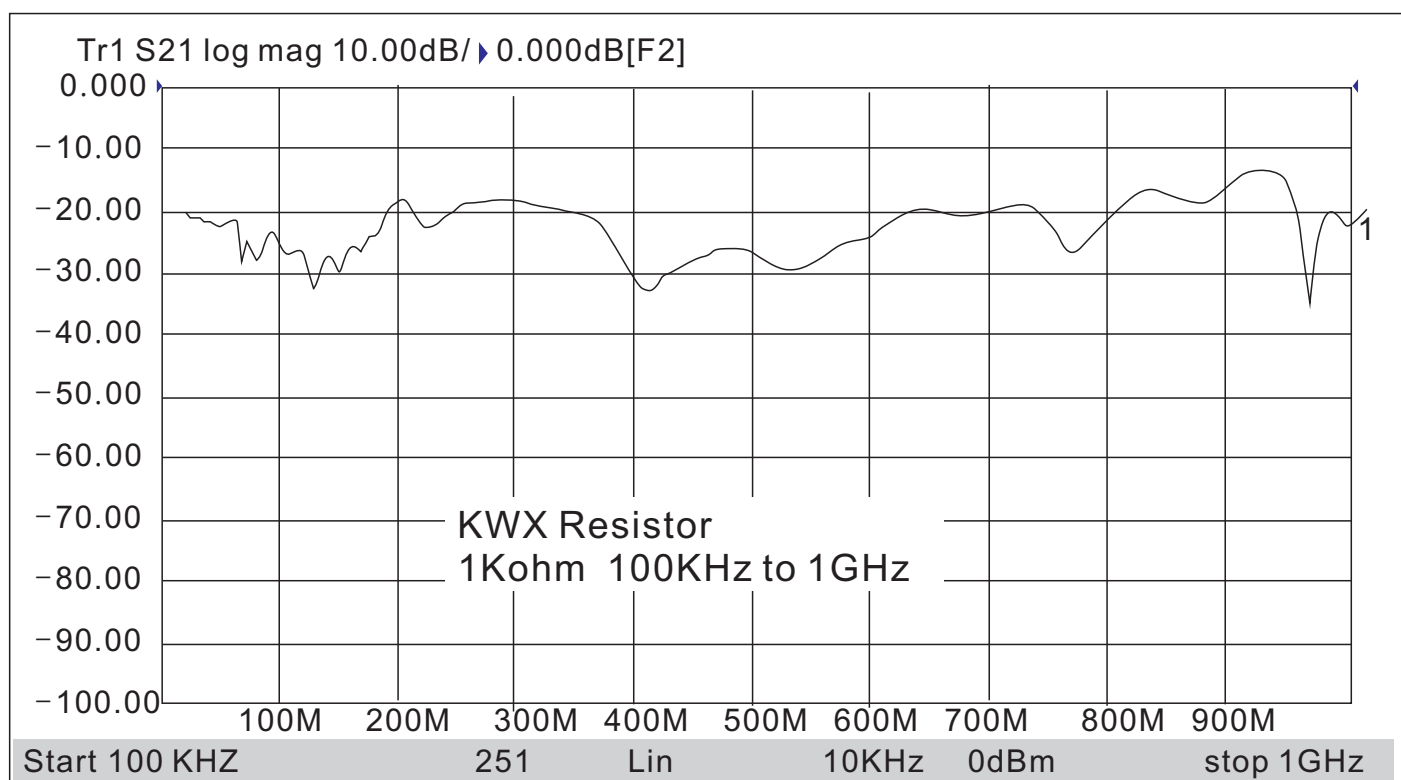
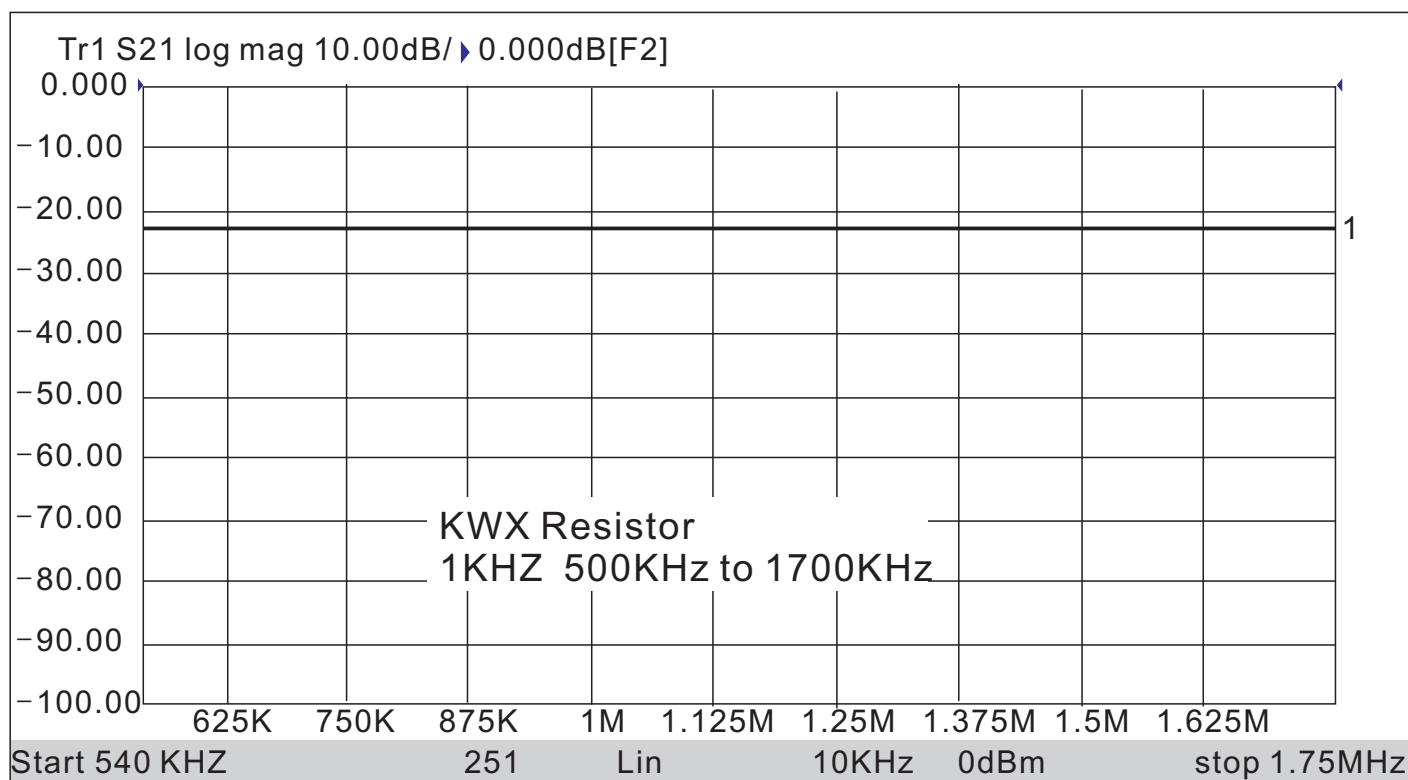
| Type | Power(W) | Resistance range (Ω) | Tolerance    |
|------|----------|----------------------|--------------|
| WPR  | 1000W    | 5Ω~5KΩ               | ±2% ±5% ±10% |

## ● Performance

|             |                                        |
|-------------|----------------------------------------|
| Tolerance:  | Resistor values are ±2% or ±5% or ±10% |
| TCR         | ±150ppm/°C                             |
| Reck voltge | ≥20KV                                  |

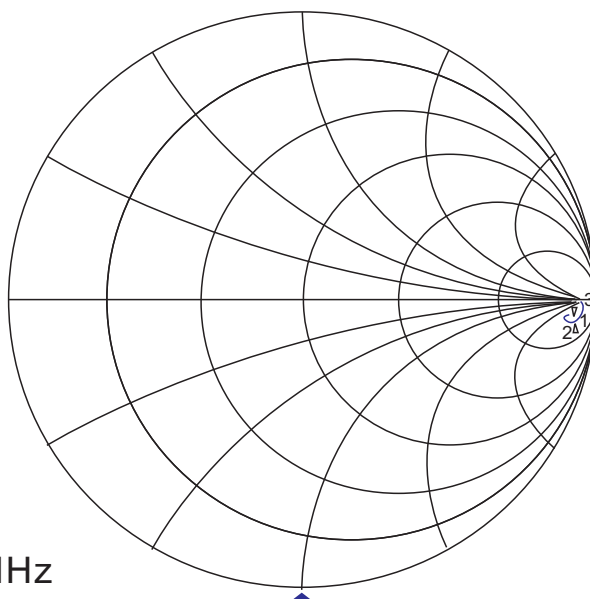
## ● High frequency curve(WPR 1KΩ)





Tr 1S11 Smith(R+jx) scale 1.000u [F1]

|   |               |                                     |          |
|---|---------------|-------------------------------------|----------|
| 1 | 80.000000 MHZ | 1.8453 K $\Omega$ - 366.37 $\Omega$ | 5.4302PF |
| 2 | 95.000000 MHZ | 758.74K $\Omega$ - 672.44 $\Omega$  | 4.4914PF |
| 3 | 110.0000 MHZ  | 768.27 K $\Omega$ - 6.5.66 $\Omega$ | 2.3889PF |

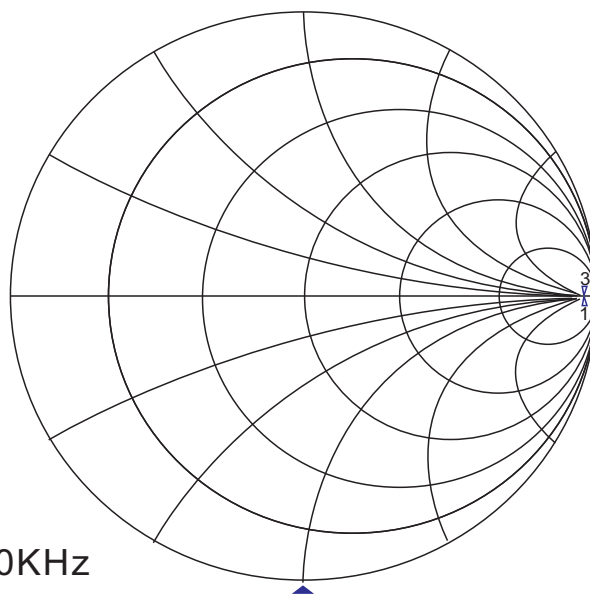


KWX Resistor  
1Kohm 80MHz to 110MHz

Start 80 MHz      201      Lin      10KHz      0dBm      stop 110MHz

Tr1 S11 Smith(R+jx) scale 1.000u [F1]

|   |               |                                     |          |
|---|---------------|-------------------------------------|----------|
| 1 | 500.00000 KHZ | 1.0769 K $\Omega$ - 194.24 $\Omega$ | 1.6387nF |
| 2 | 1.1000000 MHZ | 1.0927K $\Omega$ - 155.18 $\Omega$  | 932.39PF |
| 3 | 1.7000000 MHZ | 1.1133 K $\Omega$ - 124.30 $\Omega$ | 753.18PF |

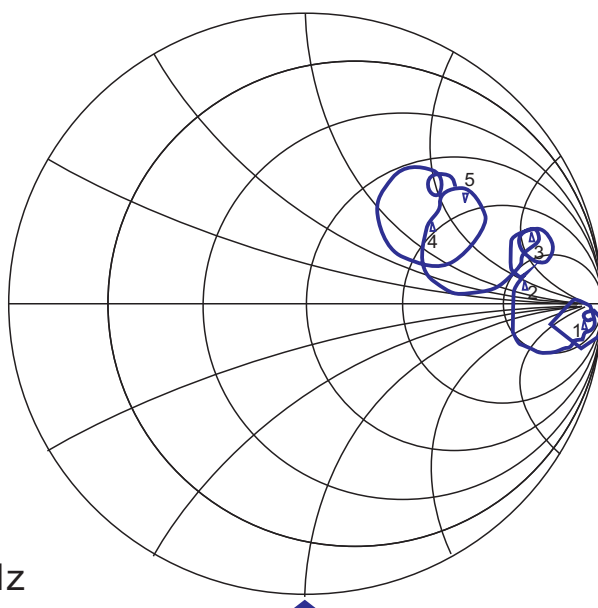


KWX Resistor  
1Kohm 500KHz to 1700KHz

Start 80 MHz      201      Lin      10KHz      0dBm      stop 1.7MHz

1 S11 Smith(R+jx) scale 1.000u [F1]

|   |               |                                     |          |
|---|---------------|-------------------------------------|----------|
| 1 | 100.00000 KHZ | 1.0694 K $\Omega$ - 210.33 $\Omega$ | 7.5669nF |
| 2 | 250.00000 MHZ | 254.46 $\Omega$ - 125.36 $\Omega$   | 79.809nH |
| 3 | 500.00000 MHZ | 135.59 $\Omega$ - 202.25 $\Omega$   | 64.380nH |
| 4 | 750.00000 MHZ | 92.393 $\Omega$ - 63.507 $\Omega$   | 13.477nH |
| 5 | 1.0000000 MHZ | 79.460 $\Omega$ - 79.513 $\Omega$   | 15.520nH |



KWX Resistor  
1Kohm 100KHz to 1GHz

Start 80 MHz      201      Lin      10KHz      0dBm      stop 1GHz