

PRECISION FIXED ATTENUATORS 50Ω SMA

2W 1 to 40 dB, DC to 18 GHz



BW

| MODEL NO. | FREQ. RANGE GHz f_l - f_u | ATTENUATION dB | | VSWR (:1) Max. | | | POWER W** | CASE STYLE Note B | CONNECTION | PRICE \$ Qty. (1-49) |
|-----------|----------------------------------|----------------|-----------|-----------------|-----------------|-----------------|-----------|----------------------|------------|-------------------------|
| | | Nom. | ACCURACY* | \underline{L} | \underline{M} | \underline{U} | | | | |
| BW-S1W2 | DC-18 | 1 | ±0.40 | 1.20 | 1.25 | 1.30 | 2 | FF658 | — | 29.95 |
| BW-S2W2 | DC-18 | 2 | ±0.40 | 1.20 | 1.25 | 1.30 | 2 | FF658 | — | 29.95 |
| BW-S3W2 | DC-18 | 3 | ±0.40 | 1.20 | 1.25 | 1.30 | 2 | FF658 | — | 29.95 |
| BW-S4W2 | DC-18 | 4 | ±0.40 | 1.20 | 1.25 | 1.30 | 2 | FF658 | — | 29.95 |
| BW-S5W2 | DC-18 | 5 | ±0.40 | 1.20 | 1.25 | 1.30 | 2 | FF658 | — | 29.95 |
| BW-S6W2 | DC-18 | 6 | ±0.40 | 1.20 | 1.25 | 1.30 | 2 | FF658 | — | 29.95 |
| BW-S7W2 | DC-18 | 7 | ±0.60 | 1.20 | 1.25 | 1.30 | 2 | FF658 | — | 29.95 |
| BW-S8W2 | DC-18 | 8 | ±0.60 | 1.20 | 1.25 | 1.30 | 2 | FF658 | — | 29.95 |
| BW-S9W2 | DC-18 | 9 | ±0.60 | 1.20 | 1.25 | 1.30 | 2 | FF658 | — | 29.95 |
| BW-S10W2 | DC-18 | 10 | ±0.60 | 1.20 | 1.25 | 1.30 | 2 | FF658 | — | 29.95 |
| BW-S12W2 | DC-18 | 12 | ±0.60 | 1.20 | 1.25 | 1.30 | 2 | FF658 | — | 29.95 |
| BW-S15W2 | DC-18 | 15 | ±0.60 | 1.20 | 1.25 | 1.30 | 2 | FF659 | — | 29.95 |
| BW-S20W2 | DC-18 | 20 | ±0.60 | 1.20 | 1.25 | 1.30 | 2 | FF659 | — | 29.95 |
| BW-S30W2 | DC-18 | 30 | ±0.85 | 1.20 | 1.25 | 1.30 | 2 | FF659 | — | 29.95 |
| BW-S40W2 | DC-18 | 40 | ±0.85 | 1.20 | 1.25 | 1.30 | 2 | FF659 | — | 29.95 |

\underline{L} = DC-4 GHz

\underline{M} = 4-8 GHz

\underline{U} = 8-12.4 GHz

features

- precision attenuation
- excellent VSWR, 1.2:1 typ.
- high temperature stability
- SMA male and female connectors

applications

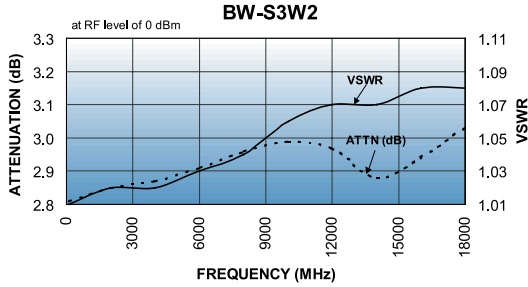
- matching
- instrumentation
- test set-ups

designers kits available

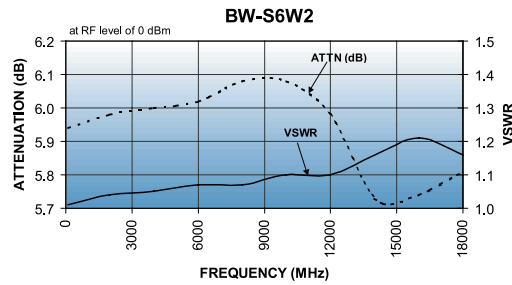
| KIT No. | No. of Units in KIT | Description | Price \$ per KIT |
|---------|---------------------|---------------------------------|------------------|
| K2-BW1 | 6 | 2 of each: 3,6,10 | 150.00 |
| K2-BW2 | 6 | 1 of each: 3,6,10,20,30,40 | 150.00 |
| K2-BW3 | 10 | 1 of each: 1,2,3,4,5,6,7,8,9,10 | 200.00 |

NOTES:

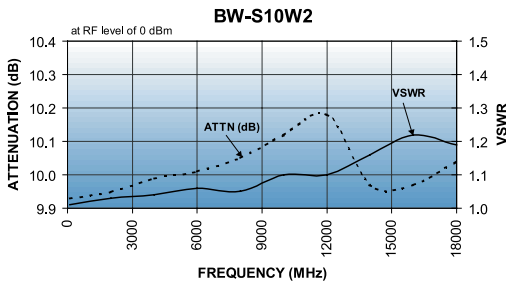
- * At 25°C includes power & frequency variations up to 12.4 GHz. Above 12.4 GHz add 0.5 dB typ. to accuracy and 0.3 typ. to VSWR in the \underline{U} range. Temperature coefficient for attenuation .0004 dB/dB/°C typ.
- ** Average power at 25°C ambient, derate linearly to 0.5 W at 100°C. Peak Power 125W max., 5µsec pulse width, 100 Hz PRF.
- A. General Quality Control Procedures, Environmental Specifications, Hi-Rel and MIL description are given in General Information (Section 0).
- B. Connector types and case mounted options, case finishes are given in section 0, see "Case styles & outline drawings".
- C. Prices and specifications subject to change without notice.



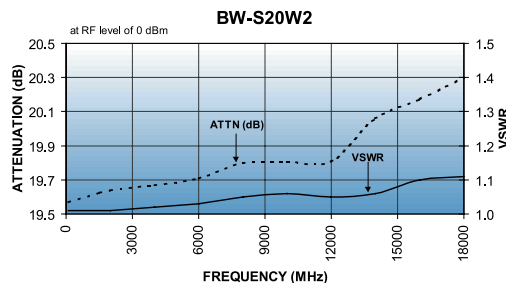
| FREQUENCY (MHz) | ATTENUATION | | VSWR | |
|-----------------|----------------|---------------|-----------|----------|
| | \bar{X} (dB) | σ (dB) | \bar{X} | σ |
| 100.00 | 2.81 | 0.02 | 1.01 | 0.01 |
| 2000.00 | 2.85 | 0.02 | 1.02 | 0.01 |
| 4000.00 | 2.87 | 0.03 | 1.02 | 0.01 |
| 6000.00 | 2.91 | 0.04 | 1.03 | 0.00 |
| 8000.00 | 2.96 | 0.05 | 1.04 | 0.01 |
| 10000.00 | 2.99 | 0.05 | 1.06 | 0.01 |
| 12000.00 | 2.97 | 0.04 | 1.07 | 0.02 |
| 14000.00 | 2.88 | 0.17 | 1.07 | 0.02 |
| 16000.00 | 2.94 | 0.17 | 1.08 | 0.03 |
| 18000.00 | 3.03 | 0.13 | 1.08 | 0.02 |



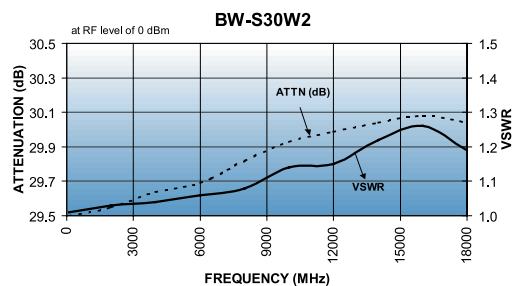
| FREQUENCY (MHz) | ATTENUATION | | VSWR | |
|-----------------|----------------|---------------|-----------|----------|
| | \bar{X} (dB) | σ (dB) | \bar{X} | σ |
| 100.00 | 5.94 | 0.03 | 1.01 | 0.00 |
| 2000.00 | 5.98 | 0.02 | 1.04 | 0.00 |
| 4000.00 | 6.00 | 0.02 | 1.05 | 0.01 |
| 6000.00 | 6.02 | 0.04 | 1.07 | 0.01 |
| 8000.00 | 6.08 | 0.10 | 1.07 | 0.01 |
| 10000.00 | 6.08 | 0.12 | 1.10 | 0.03 |
| 12000.00 | 5.98 | 0.11 | 1.10 | 0.03 |
| 14000.00 | 5.73 | 0.07 | 1.16 | 0.02 |
| 16000.00 | 5.74 | 0.08 | 1.21 | 0.03 |
| 18000.00 | 5.81 | 0.10 | 1.16 | 0.02 |



| FREQUENCY (MHz) | ATTENUATION | | VSWR | |
|-----------------|----------------|---------------|-----------|----------|
| | \bar{X} (dB) | σ (dB) | \bar{X} | σ |
| 100.00 | 9.93 | 0.03 | 1.01 | 0.00 |
| 2000.00 | 9.95 | 0.02 | 1.03 | 0.00 |
| 4000.00 | 9.99 | 0.01 | 1.04 | 0.00 |
| 6000.00 | 10.01 | 0.01 | 1.06 | 0.01 |
| 8000.00 | 10.05 | 0.01 | 1.05 | 0.01 |
| 10000.00 | 10.12 | 0.03 | 1.10 | 0.02 |
| 12000.00 | 10.18 | 0.10 | 1.10 | 0.03 |
| 14000.00 | 9.97 | 0.15 | 1.16 | 0.04 |
| 16000.00 | 9.97 | 0.18 | 1.22 | 0.04 |
| 18000.00 | 10.04 | 0.21 | 1.19 | 0.04 |



| FREQUENCY (MHz) | ATTENUATION | | VSWR | |
|-----------------|----------------|---------------|-----------|----------|
| | \bar{X} (dB) | σ (dB) | \bar{X} | σ |
| 100.00 | 19.57 | 0.06 | 1.01 | 0.00 |
| 2000.00 | 19.64 | 0.07 | 1.01 | 0.00 |
| 4000.00 | 19.67 | 0.08 | 1.02 | 0.00 |
| 6000.00 | 19.71 | 0.09 | 1.03 | 0.00 |
| 8000.00 | 19.80 | 0.13 | 1.05 | 0.01 |
| 10000.00 | 19.81 | 0.14 | 1.06 | 0.01 |
| 12000.00 | 19.81 | 0.16 | 1.05 | 0.01 |
| 14000.00 | 20.06 | 0.26 | 1.06 | 0.00 |
| 16000.00 | 20.17 | 0.29 | 1.10 | 0.00 |
| 18000.00 | 20.30 | 0.32 | 1.11 | 0.01 |



| FREQUENCY (MHz) | ATTENUATION | | VSWR | |
|-----------------|----------------|---------------|-----------|----------|
| | \bar{X} (dB) | σ (dB) | \bar{X} | σ |
| 100.00 | 29.50 | 0.08 | 1.01 | 0.00 |
| 2000.00 | 29.55 | 0.02 | 1.03 | 0.00 |
| 4000.00 | 29.64 | 0.03 | 1.04 | 0.00 |
| 6000.00 | 29.69 | 0.04 | 1.06 | 0.01 |
| 8000.00 | 29.82 | 0.11 | 1.08 | 0.02 |
| 10000.00 | 29.93 | 0.17 | 1.14 | 0.02 |
| 12000.00 | 29.99 | 0.22 | 1.15 | 0.02 |
| 14000.00 | 30.04 | 0.33 | 1.22 | 0.03 |
| 16000.00 | 30.08 | 0.41 | 1.26 | 0.03 |
| 18000.00 | 30.04 | 0.49 | 1.19 | 0.05 |