

Coaxial Shunts T&M RESEARCH PRODUCTS, Inc.

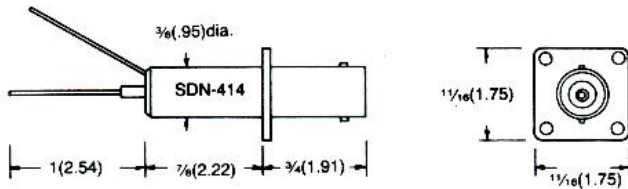
Mai 14

The displayed shunt sizes and resistive values are intended to guide users through the possibilities. We can dial in any resistance value a customer would be interested in. The values in the catalog allow the user to also know the response characteristics of their unit should they decide to change a resistance value by a milliohm or so. We consider us to be a design-build company where most of our business is still prototype design built to customer specifications. We will provide any contact tab/connector You may think of - at reasonable cost. This is also possible for single quantity coaxial current probes. Standard monitor connector is BNC
Models SDN and SBNC - torque down threaded center load terminals by hand only !

SDN - 414 Series

SDN-414- 2 Watt Units - 1 5/8 Inch Case

| Model | Resistance ohms | Bandpass MHz. | Risetime nsec. | Emax joules |
|-------------|-----------------|---------------|----------------|-------------|
| SDN-414-01 | 0,01 | 400 | 1 | 6 |
| SDN-414-025 | 0,025 | 1200 | 0,3 | 3 |
| SDN-414-05 | 0,05 | 2000 | 0,18 | 2 |
| SDN-414-10 | 0,1 | 2000 | 0,18 | 1 |



Picture 5. TTSDN shunt compared to standard

ORDERING INFORMATION

When ordering specify model number, wattage, and tolerance. Example: SDN-414-10, 2 watts, 4%.
 Please specify type of load terminals: standard wire=SDN - flat low impedance strips = TTSDN

SDN Series

2 Watt Units - 1 13/16 Inch Case

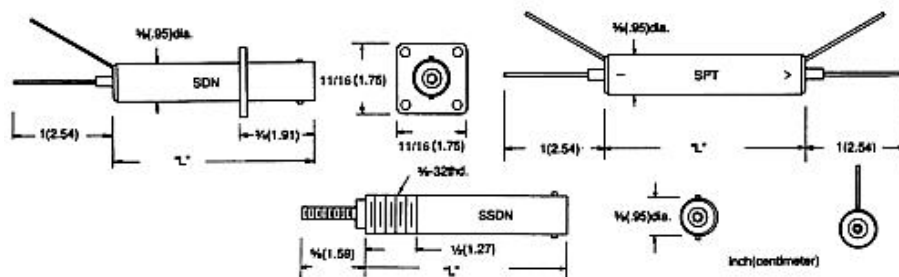
| Model | Resistance ohms | Bandpass MHz. | Risetime nsec. | Emax joules |
|----------|-----------------|---------------|----------------|-------------|
| SDN-001 | 0,001 | 12 | 30 | 12 |
| SDN-0025 | 0,0025 | 12 | 30 | 28 |
| SDN-005 | 0,005 | 400 | 1 | 3 |
| SDN-015 | 0,015 | 1200 | 0,3 | 1,5 |
| SDN-10 | 0,1 | 2000 | 0,18 | 2 |

3 Watt Units - 2 11/16 Inch Case

| Model | Resistance ohms | Bandpass MHz. | Risetime nsec. | Emax joules |
|--------|-----------------|---------------|----------------|-------------|
| SDN-25 | 0,25 | 1200 | 0,3 | 5 |
| SDN-50 | 0,5 | 800 | 0,45 | 2,5 |

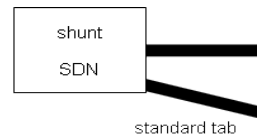
4 Watt Units - 4 Inch Case

| Model | Resistance ohms | Bandpass MHz. | Risetime nsec. | Emax joules |
|----------------------|-----------------|---------------|----------------|-------------|
| SDN-100-discontinued | 1 | 800 | 0,45 | 5 |

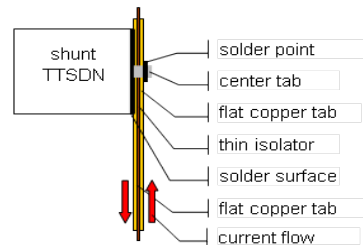


When ordering specify model number(SDN,SSDN,SPT), wattage, and tolerance. Example: SDN-50, 3 watts, 4%.

Models SDN and SBNC - torque down threaded center load terminals by hand only !



standard tab



Picture 6: TTSDN shunt , sketch

A Series - SBNC Series

4 Watt Units - 3 1/4 Inch Case*

| Model | Resistance ohms | Bandpass Mhz. | Risetime nsec. | Emax joules |
|----------|-----------------|---------------|----------------|-------------|
| A-2-01 | 0,01 | 400 | 1 | 16 |
| A-5-05 | 0,05 | 2000 | 0,18 | 5 |
| A-2-005 | 0,005 | 200 | 2 | 15 |
| A-4-0025 | 0,0025 | 48 | 8 | 30 |
| A-8-001 | 0,001 | 12 | 30 | 70 |

5 Watt Units - 3 1/8 Inch Case*

| Model | Resistance ohms | Bandpass Mhz. | Risetime nsec. | Emax joules |
|---------|-----------------|---------------|----------------|-------------|
| A-1-05 | 0,05 | 1200 | 0,3 | 20 |
| A-2-025 | 0,025 | 400 | 1 | 40 |
| A-5-1 | 0,1 | 1200 | 0,3 | 10 |
| A-4-005 | 0,005 | 48 | 8 | 60 |

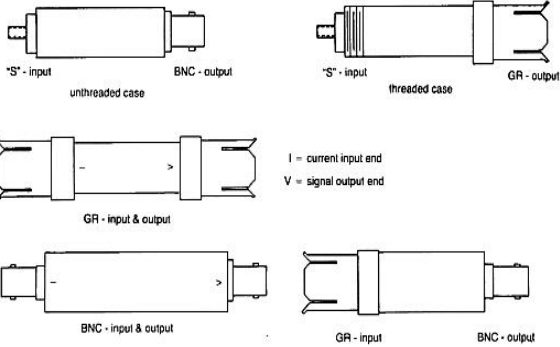
6 Watt Units - 5 Inch Case*

| Model | Resistance ohms | Bandpass Mhz. | Risetime nsec. | Emax joules |
|--------|-----------------|---------------|----------------|-------------|
| A-1-1 | 0,1 | 800 | 0,45 | 40 |
| A-2-05 | 0,05 | 400 | 1 | 80 |
| A-5-2 | 0,2 | 1200 | 0,3 | 20 |

7 Watt Units - 5 1/2 Inch Case*

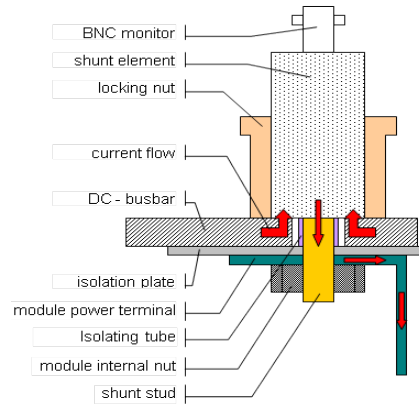
| Model | Resistance ohms | Bandpass MHz. | Risetime nsec. | Emax joules |
|--------------------|-----------------|---------------|----------------|-------------|
| A-5-5-discontinued | 0,5 | 800 | 0,45 | 15 |

*Case lengths are for the SBNC-X-X model type, case lengths for other connectors will vary slightly. "S" modification - Current input connection is an 8-32 stud with the case threaded 5/8-24, supplied with two nuts. Unthreaded case available if specified.



Please specify type of shape A or SBNC Series, specify center terminal thread and length M5/M6 or M5 with thread adaptor to M8 length from 5mm to 25mm SBNC models Are sold with a big solid locking nut

Models SDN and SBNC - torque down threaded center load terminals by hand only !



Picture 4. SBNC shunt insertion, sketch



Picture 3. SBNC shunt



Picture: SBNC with locking nut and busbar isolator

M Series

1M Models - 20 - Watt Hi-wattage Units - 4 3/4 Inch Overall Length

| Model | Resistance ohms | Bandpass MHz. | Risetime nsec. | E _{max} joules |
|---------|-----------------|---------------|----------------|-------------------------|
| 1M-T10* | 0,05 | 1200 | 0,3 | 75 |
| 1M-05 | 0,025 | 400 | 1 | 150 |
| 1M-1 | 0,02 | 800 | 0,45 | 63 |
| 1M-2 | 0,01 | 200 | 2 | 125 |
| 1M-4 | 0,005 | 48 | 8 | 250 |
| 1M-8 | 0,0025 | 12 | 30 | 500 |
| 1M-10 | 0,002 | 8 | 45 | 625 |
| 1M-16 | 0,00125 | 3,2 | 113 | 1000 |
| 1M-20 | 0,001 | 2,2 | 164 | 1250 |

2M Models - 30 - Watt Hi-wattage Units - 6 3/4 Inch Overall Length

| Model | Resistance ohms | Bandpass MHz. | Risetime nsec. | E _{max} joules |
|---------|-----------------|---------------|----------------|-------------------------|
| 2M-T10* | 0,1 | 800 | 0,45 | 150 |
| 2M-05* | 0,05 | 400 | 1 | 300 |
| 2M-1 | 0,04 | 400 | 1 | 125 |
| 2M-2 | 0,02 | 200 | 2 | 250 |
| 2M-4 | 0,01 | 48 | 8 | 500 |
| 2M-8 | 0,005 | 12 | 30 | 1000 |
| 2M-10 | 0,004 | 8 | 45 | 1250 |
| 2M-16 | 0,0025 | 3,2 | 113 | 1250 |
| 2M-20 | 0,002 | 2,2 | 164 | 2500 |



Picture: M-Series - standard

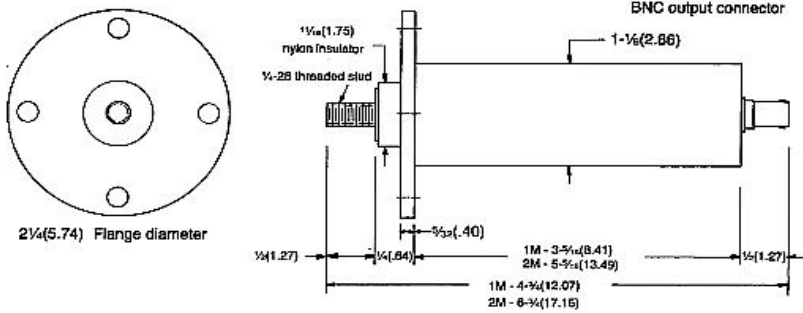
*These models slightly longer than stated. BNC output connector supplied as standard. Other connectors available.

CONTINUOUS DUTY RATINGS

| Model | Hi-Wattage | Finned Model |
|-------|------------|--------------|
| 1M | 20 WATTS | 75 WATTS |
| 2M | 30 WATTS | 125 WATTS |

The Hi-Wattage model is standard. The wattage for the 1M is 20 watts and the 2M is 30 watts. Both the 1M and 2M are available with cooling fins attached to their cases. The finned model wattage's are 75 watts for the 1M and 125 watts for the 2M. The wattage's stated are based on heavy current connections with unconfined mounting. The case temperatures should not exceed 140 degrees F(60 degrees C). Additionally the Finned Models require 100 cubic feet(2.8 cubicmeters) per minute air flow over their cases. The ambient temperature should not exceed 86 degree F(30 degrees C). Operation above this temperature the wattage rating should be derated accordingly.

$\frac{1}{2}$ (.55) mounting holes on 1- $\frac{3}{4}$ (4.45) bolt circle



ORDERING INFORMATION

When ordering specific model number, wattage, output connector, and tolerance.

Example: 1M-20, 20 watts,BNC, 4%.

F Series

75 Watt Hi-Wattage Units - 8 Inch Overall Length

| Model | Resistance ohms | Bandpass MHz. | Risetime nsec. | Emax joules |
|-------------|-----------------|---------------|----------------|-------------|
| F-250-1 | 0,02 | 800 | 0,45 | 250 |
| F-500-2 | 0,01 | 200 | 2 | 500 |
| F-1000-4 | 0,005 | 48 | 8 | 1000 |
| F-2000-8 | 0,0025 | 12 | 30 | 2000 |
| F-2500-10 | 0,002 | 8 | 45 | 2500 |
| F-4000-16 | 0,00125 | 3,2 | 113 | 4000 |
| F-5000-20 | 0,001 | 2,2 | 164 | 5000 |
| F-8000-32 | 0,000625 | 1 | 250 | 8000 |
| F-10,000-40 | 0,0005 | 0,58 | 872 | 10000 |

90 Watt Hi-Wattage Units - 8 7/8 Inch Overall Length

| Model | Resistance ohms. | Bandpass MHz. | Risetime nsec. | Emax joules |
|-------------|------------------|---------------|----------------|-------------|
| F-300-1 | 0,025 | 800 | 0,45 | 300 |
| F-3000-10 | 0,0025 | 8 | 45 | 3000 |
| F-16,000-40 | 0,0008 | 0,58 | 872 | 16000 |

| Model | Hi-Wattage | Finned Model |
|--------|------------|--------------|
| 8" | 75 watt | 250 watt |
| 8 7/8" | 90 watt | 300 watt |

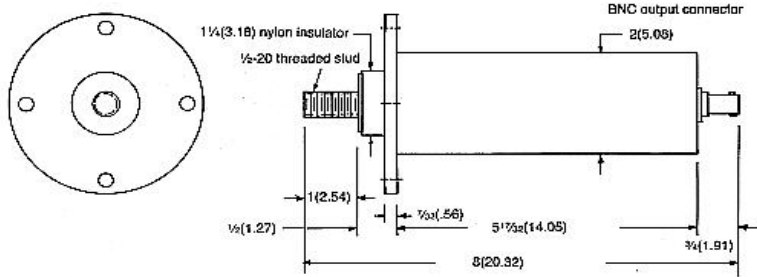


Picture: M-Series - finned

The Hi-Wattage model is standard. The wattage's stated are based on heavy current connections with unconfined mounting. The case temperature should not exceed 140 degrees F (60 degrees C). Additionally the Finned Models require 150 cubic feet(4.2 cubicmeters) per minute air flow over their cases. The ambient temperature should not exceed 86 degrees F (30 degrees C). Operation above this temperature the wattage rating should be derated accordingly.

3 1/2(8.89) Flange diameter

1/2(.71) mounting holes on 2 3/4(6.59) bolt circle



ORDERING INFORMATION

When ordering specify model number, wattage, output connector and tolerance.

Example:F-5000-20, 75 Watts, BNC, 4%.

K Series

150 Watt Hi-Wattage Units - 10 Inch Overall Length

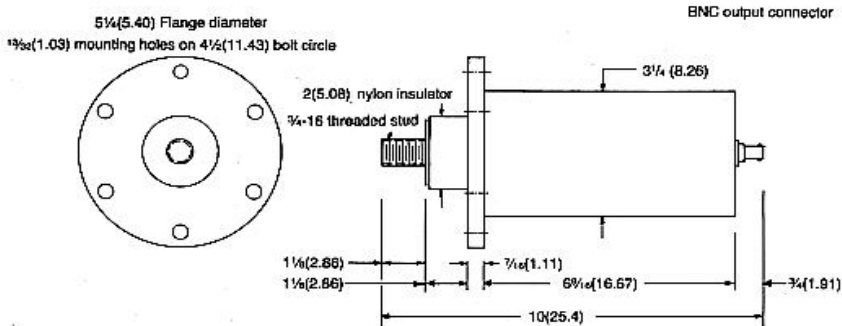
| Model | Resistance ohms | Bandpass MHz. | Risetime nsec. | Emax joules |
|-------------|-----------------|---------------|----------------|-------------|
| K-500-1 | 0,01 | 800 | 0,45 | 500 |
| K-1000-2 | 0,005 | 200 | 2 | 1000 |
| K-2000-4 | 0,0025 | 48 | 8 | 2000 |
| K-4000-8 | 0,00125 | 12 | 30 | 4000 |
| K-5000-10 | 0,001 | 8 | 45 | 5000 |
| K-8000-16 | 0,000625 | 3,2 | 113 | 8000 |
| K-10,000-20 | 0,0005 | 2,2 | 164 | 10000 |
| K-16,000-32 | 0,0003 | 1 | 250 | 16000 |
| K-20,000-40 | 0,00025 | 0,58 | 872 | 20000 |
| K-32,000-64 | 0,00015 | 0,25 | 2000 | 32000 |

120 Watt Hi-Wattage Units - 9 1/8 Inch Overall Length

| Model | Resistance ohms | Bandpass MHz. | Risetime nsec. | Emax joules |
|-------------|-----------------|---------------|----------------|-------------|
| K-1600-4 | 0,002 | 48 | 8 | 1600 |
| K-3200-8 | 0,001 | 12 | 30 | 3200 |
| K-6400-16 | 0,0005 | 3,2 | 113 | 6400 |
| K-12,800-32 | 0,00025 | 1 | 250 | 12800 |
| K-16,000-40 | 0,0002 | 0,58 | 872 | 16000 |
| K-21,000-64 | 0,0001 | 0,25 | 2000 | 21000 |

| Model | Hi-Wattage | Finned Model |
|--------|------------|--------------|
| 10" | 150 Watt | 500 Watt |
| 9 1/8" | 120 Watt | 400 Watt |

The Hi-Wattage model is standard. The wattage's stated are based on heavy current connections with unconfined mounting. The case temperature should not exceed 140 degrees F (60 degrees C). Additionally the Finned Models require 200 cubic feet(5.6 cubicmeters) per minute air flow over their cases. The ambient temperature should not exceed 86 degrees F (30 degrees C). Operation above this temperature the wattage rating should be derated accordingly.



inch(centimeter)

ORDERING INFORMATION

When ordering specify model number, wattage, output connector and tolerance.

Example:K-5000-10, 150 Watts, BNC, 4%.

R Series

225 Watt Hi-Wattage Units - 12 3/4 Inch Overall Length, 3 3/4 Inch Dia.

| Model | Resistance ohms | Bandpass MHz. | Risetime nsec. | Emax joules |
|-------------|-----------------|---------------|----------------|-------------|
| R-700-1 | 0,01 | 800 | 0,45 | 700 |
| R-1400-2 | 0,005 | 200 | 2 | 1400 |
| R-2800-4 | 0,0025 | 48 | 8 | 2800 |
| R-5600-8 | 0,00125 | 12 | 30 | 5600 |
| R-7000-10 | 0,001 | 8 | 45 | 7000 |
| R-11,200-16 | 0,000625 | 3,2 | 113 | 11200 |
| R-14,000-20 | 0,0005 | 2,2 | 164 | 14000 |
| R-22,400-32 | 0,0003 | 1 | 250 | 22400 |
| R-28,000-40 | 0,00025 | 0,58 | 872 | 28000 |
| R-44,800-64 | 0,00015 | 0,25 | 2000 | 44800 |



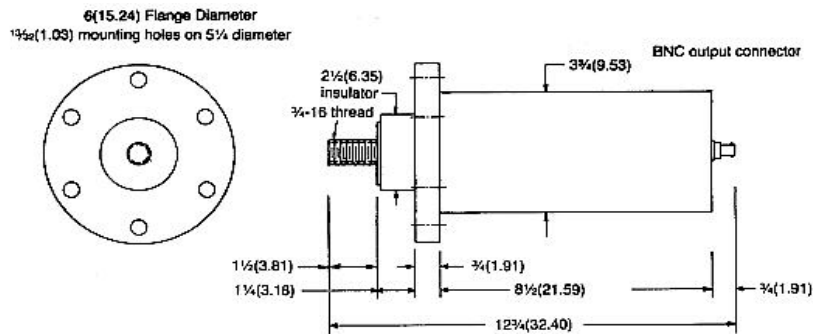
Picture: R-Series - finned

275 Watt Hi-Wattage Units - 11 Inch Overall Length, 5 Inch Dia.

| Model | Resistance ohms | Bandpass MHz. | Risetime nsec. | Emax joules |
|-------------|-----------------|---------------|----------------|-------------|
| R-7500-8 | 0,001 | 12 | 30 | 7500 |
| R-15,000-16 | 0,0005 | 3,2 | 113 | 15000 |
| R-30,000-32 | 0,00025 | 1 | 250 | 30000 |
| R-60,000-64 | 0,000125 | 0,25 | 2000 | 60000 |

| Model | Hi-Wattage | Finned |
|---------|------------|----------|
| 12 3/4" | 225 watt | 700 watt |
| 11" | 275 watt | 850 watt |

The Hi-Wattage model is standard. The wattage's stated are based on heavy current connections with unconfined mounting. The case temperature should not exceed 140 degrees F (60 degrees C). Additionally the Finned Models require 300 cubic feet(8.6 cubicmeters) per minute air flow over their cases. The ambient temperature should not exceed 86 degrees F (30 degrees C). Operation above this temperature the wattage rating should be derated accordingly.



ORDERING INFORMATION

When ordering specify model number, wattage, output connector and tolerance.
 Example:R-14,000-20, 225 Watts, BNC, 4%.

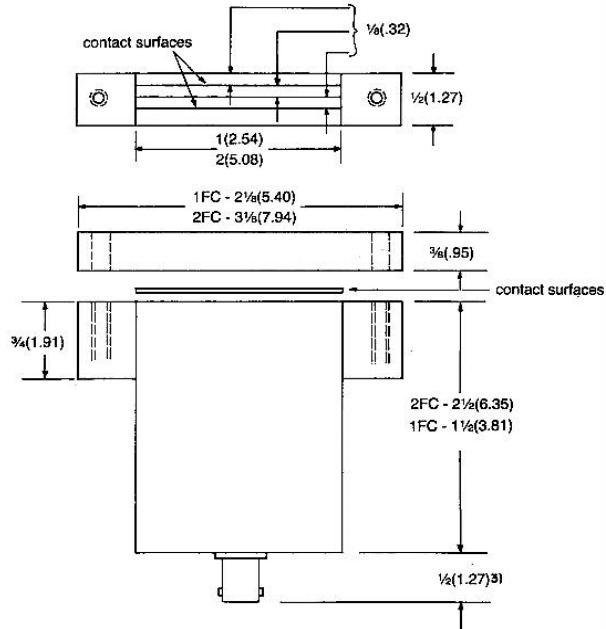
W-clamping type flat cable input

5 Watt Units - 1 Inch Long Clamping Surface

| Model | Resistance ohms | Bandpass MHz. | Risetime nsec. | Emax joules |
|---------------|-----------------|---------------|----------------|-------------|
| W-1-01C-1FC | 0,01 | 800 | 0,45 | 20 |
| W-2-005C-1FC | 0,005 | 200 | 2 | 40 |
| W-4-0025C-1FC | 0,0025 | 48 | 8 | 60 |

7 1/2 Watt Units - 2 Inch Long Clamping Surface

| Model | Resistance ohms | Bandpass MHz. | Risetime nsec. | Emax joules |
|---------------|-----------------|---------------|----------------|-------------|
| W-1-01C-2FC | 0,01 | 800 | 0,45 | 80 |
| W-1-005C-2FC | 0,005 | 800 | 0,45 | 40 |
| W-2-0025C-2FC | 0,0025 | 200 | 2 | 80 |
| W-4-001C-2FC | 0,001 | 48 | 8 | 130 |



Picture: W-clamping Series

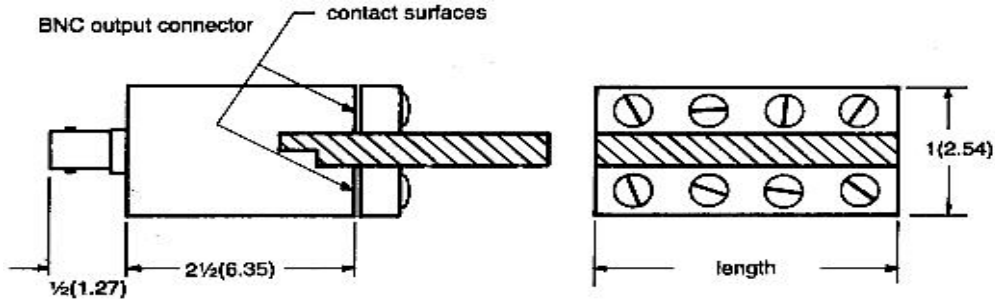
ORDERING INFORMATION

When ordering specify model number. Example: W-1-10C-1FC.

W-bar strap type flat cable input

2 1/2 Watts Per Unit Length

| Model | Resistance ohms | Bandpass MHz. | Risetime nsec. | Emax joules | Length Inches |
|-----------------------------|-----------------|---------------|----------------|-------------|---------------|
| W-2-005C-2FC | 0,005 | 400 | 2 | 125 | 2 |
| W-2-0025-4FC | 0,0025 | 400 | 2 | 275 | 4 |
| W-2-001-6FC | 0,001 | 400 | 2 | 275 | 6 |
| W-2-0005-12FC | 0,0005 | 400 | 2 | 550 | 12 |
| W-2-0005-18FC-discontinued | 0,0005 | 400 | 2 | 1250 | 18 |
| W-2-00025-24FC-discontinued | 0,00025 | 400 | 2 | 1050 | 24 |



ORDERING INFORMATION

When ordering specify model number and tolerance. Example: W-2-001-6FC. For custom design unit please specify your requirements: Length of unit, resistance, joules, and mounting requirements.

W-stud input 1 stud type

7 1/2 Watt Units - 5 1/2 Inch Overall Length

| Model | Resistance ohms | Bandpass MHz. | Risetime nsec. | Emax joules |
|---------------------------|-----------------|---------------|----------------|-------------|
| W-5-50-1STUD-discontinued | 5 | 400 | 1 | 300 |
| W-5-40-1STUD-discontinued | 4 | 400 | 1 | 240 |
| W-5-30-1STUD-discontinued | 3 | 400 | 1 | 180 |
| W-5-20-1STUD | 2 | 400 | 1 | 120 |
| W-5-10-1STUD | 1 | 800 | 0,45 | 60 |

6 Watt Units - 4 1/2 Inch Overall Length

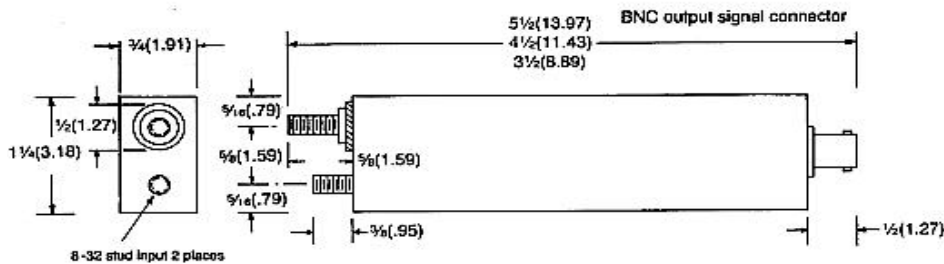
| Model | Resistance ohms | Bandpass MHz. | Risetime nsec. | Emax joules |
|---------------|-----------------|---------------|----------------|-------------|
| W-1T-5-1STUD | 0,5 | 400 | 1 | 500 |
| W-1T-25-1STUD | 0,25 | 800 | 0,45 | 250 |
| W-1-1-1STUD | 0,1 | 400 | 1 | 200 |
| W-1-05-1STUD | 0,05 | 400 | 1 | 100 |

5 Watt Units - 3 1/2 Inch Overall Length

| Model | Resistance ohms | Bandpass MHz. | Risetime nsec. | Emax joules |
|----------------|-----------------|---------------|----------------|-------------|
| W-1-025-1STUD | 0,025 | 800 | 0,45 | 50 |
| W-2-01-1STUD | 0,01 | 200 | 2 | 80 |
| W-4-005-1STUD | 0,005 | 48 | 8 | 160 |
| W-8-0025-1STUD | 0,0025 | 12 | 30 | 320 |
| W-10-001-1STUD | 0,001 | 8 | 45 | 200 |



Picture: W-Stud Type



ORDERING INFORMATION

When ordering specify model number, wattage and tolerance. Example: W-1-05-1Stud, 6 watts.

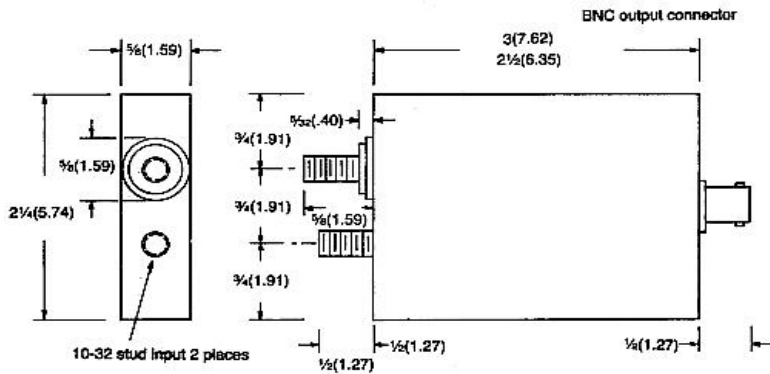
W-stud input 2 stud type

12 1/2 Watt Units - 2 1/2 Inch Overall Length

| Model | Resistance ohms | Bandpass MHz. | Risetime nsec. | Emax joules |
|----------------|-----------------|---------------|----------------|-------------|
| W-1-05-2STUD | 0,05 | 400 | 1 | 425 |
| W-1-025-2STUD | 0,025 | 400 | 1 | 213 |
| W-1-01-2STUD | 0,01 | 800 | 0,45 | 85 |
| W-2-005-2STUD | 0,005 | 200 | 2 | 165 |
| W-4-0025-2STUD | 0,0025 | 48 | 8 | 330 |
| W-8-001-2STUD | 0,001 | 12 | 30 | 350 |

15 Watt Units - 3 Inch Overall Length

| Model | Resistance ohms | Bandpass MHz. | Risetime nsec. | Emax joules |
|----------------|-----------------|---------------|----------------|-------------|
| W-2-01-2STUD | 0,01 | 200 | 2 | 330 |
| W-4-005-2STUD | 0,005 | 48 | 8 | 660 |
| W-8-0025-2STUD | 0,0025 | 12 | 30 | 1320 |



ORDERING INFORMATION

When ordering specify model number, wattage, and tolerance. Example: W-1-01-2Stud, 12 1/2 watts, 4%.

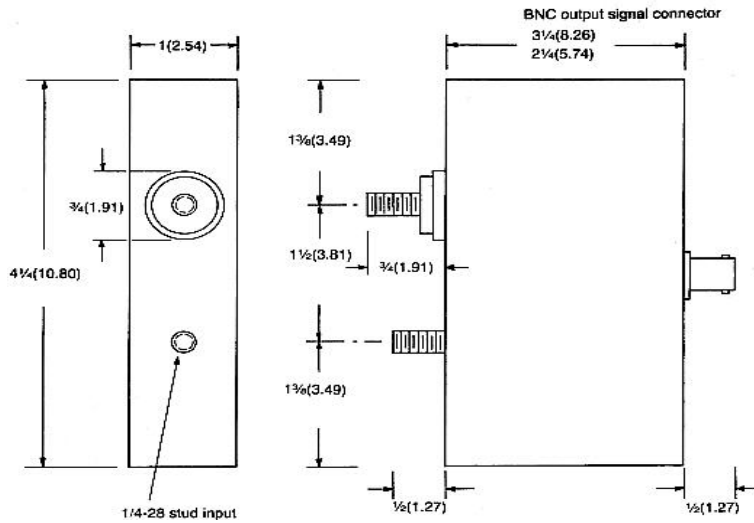
W-stud input 4 stud type

15 Watt Units - 3 Inch Case Length

| Model | Resistance ohms | Bandpass MHz. | Risetime nsec. | Emax joules |
|------------------|-----------------|---------------|----------------|-------------|
| W-1-005-4STUD | 0,005 | 800 | 0,45 | 175 |
| W-2-0025-4STUD | 0,0025 | 200 | 2 | 350 |
| W-4-0005-4STUD | 0,001 | 48 | 8 | 560 |
| W-8-0005-4STUD | 0,0005 | 12 | 30 | 1220 |
| W-16-00025-4STUD | 0,00025 | 3,2 | 113 | 2440 |

20 Watt Units - 4 Inch Case Length

| Model | Resistance ohms | Bandpass MHz. | Risetime nsec. | Emax joules |
|-----------------|-----------------|---------------|----------------|-------------|
| W-1-01-4STUD | 0,01 | 800 | 0,45 | 350 |
| W-2-005-4STUD | 0,005 | 200 | 2 | 700 |
| W-4-0025-4STUD | 0,0025 | 48 | 8 | 1400 |
| W-8-001-4STUD | 0,001 | 12 | 30 | 2240 |
| W-16-0005-4STUD | 0,0005 | 3,2 | 113 | 2240 |



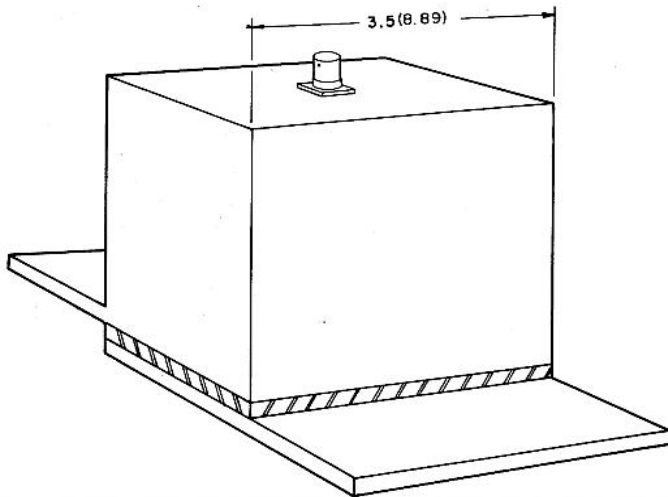
ORDERING INFORMATION

When ordering specify model number, wattage, and tolerance. Example: W-1-01-4Stud, 20 watts, 4%.

W-flange input 3.5s type

| Model - Group A | Resistance ohms | Bandpass MHz. | Risetime nsec. | Emax joules |
|---------------------|-----------------|---------------|----------------|-------------|
| W30011-3.5s-025 | 0,025 | 300 | 1,5 | 300 |
| W52012-3.5s-01 | 0,01 | 200 | 2 | 520 |
| W1K4-3.5s-005 | 0,005 | 48 | 8 | 1000 |
| W2.1K8-3.5s-0025 | 0,0025 | 12 | 30 | 2100 |
| W3.5K10-3.5s-0025 | 0,0025 | 8 | 45 | 3500 |
| W3.3K16-3.5s-001 | 0,001 | 3,2 | 113 | 3300 |
| W5.5K20-3.5s-001 | 0,001 | 2,2 | 164 | 5500 |
| W6.6K32-3.5s-0005 | 0,0005 | 1 | 250 | 6600 |
| W11.2K40-3.5s-0005 | 0,0005 | 0,58 | 872 | 11200 |
| W13.2K64-3.5s-00025 | 0,00025 | 0,25 | 2000 | 13200 |

| Model - Group B | Resistance ohms | Bandpass MHz. | Risetime nsec. | Emax joules |
|---------------------|-----------------|---------------|----------------|-------------|
| W49011-3.5s-01 | 0,01 | 300 | 1,5 | 490 |
| W1K2-3.5s-005 | 0,005 | 200 | 2 | 1000 |
| W2K4-3.5s-0025 | 0,0025 | 48 | 8 | 2000 |
| W3.4K8-3.5s-001 | 0,001 | 12 | 30 | 3400 |
| W5.7K10-3.5s-001 | 0,001 | 8 | 45 | 5700 |
| W6.6K16-3.5s-0005 | 0,0005 | 3,2 | 113 | 6600 |
| W11K20-3.5s-0005 | 0,0005 | 2,2 | 164 | 11000 |
| W13.2K32-3.5s-00025 | 0,00025 | 1 | 250 | 13200 |
| W22K40-3.5s-00025 | 0,00025 | 0,58 | 872 | 22000 |
| W21.1K64-3.5s-0001 | 0,0001 | 0,25 | 2000 | 21100 |



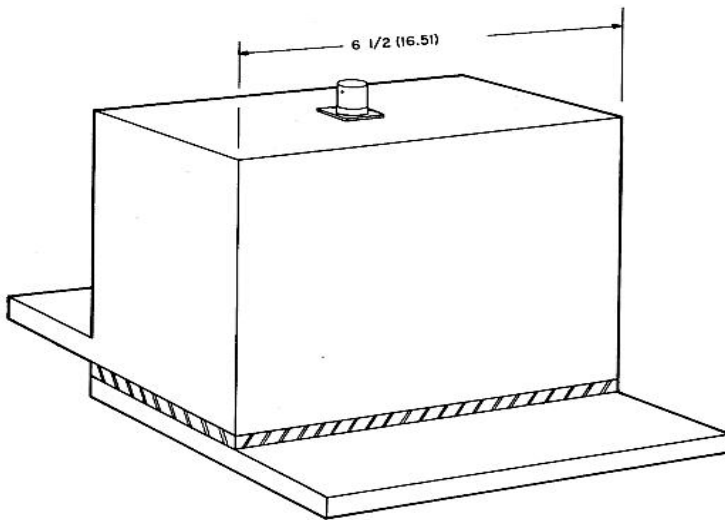
ORDERING INFORMATION

When ordering specify model number, and tolerance. Example: W1K4-3.5S-005.

W-flange input 6.5s type

| Model | Resistance ohms | Bandpass MHz. | Risetime nsec. | Emax joules |
|---------------------|-----------------|---------------|----------------|-------------|
| W49011-6.5s-01 | 0,01 | 300 | 1,5 | 490 |
| W1K2-6.5s-005 | 0,005 | 200 | 2 | 100 |
| W2K4-6.5s-0025 | 0,0025 | 48 | 8 | 2000 |
| W3.4K8-6.5s-001 | 0,001 | 12 | 30 | 3400 |
| W5.7K10-6.5s-001 | 0,001 | 8 | 45 | 5700 |
| W6.6K16-6.5s-0005 | 0,0005 | 3,2 | 113 | 6600 |
| W11K20-6.5s-0005 | 0,0005 | 2,2 | 164 | 11000 |
| W13.2K32-6.5s-00025 | 0,00025 | 1 | 250 | 13200 |
| W22K40-6.5s-00025 | 0,00025 | 0,58 | 872 | 22000 |
| W21.1K64-6.5s-0001 | 0,0001 | 0,25 | 2000 | 21100 |

| Model - Group B | Resistance ohms | Bandpass MHz. | Risetime nsec. | Emax joules |
|---------------------|-----------------|---------------|----------------|-------------|
| W98011-6.5s-005 | 0,005 | 300 | 1,5 | 980 |
| W1.1K2-6.5s-0025 | 0,0025 | 200 | 2 | 1100 |
| W3.2K4-6.5s-001 | 0,001 | 48 | 8 | 3200 |
| W6.7K8-6.5s-0005 | 0,0005 | 12 | 30 | 6700 |
| W11.4K10-6.5s-0005 | 0,0005 | 8 | 45 | 11400 |
| W13.2K16-6.5s-00025 | 0,00025 | 3,2 | 113 | 13200 |
| W22.1K20-6.5s-00025 | 0,00025 | 2,2 | 164 | 22100 |
| W21.1K32-6.5s-0001 | 0,0001 | 1 | 250 | 21100 |
| W35.9K40-6.5s-0001 | 0,0001 | 0,58 | 872 | 35900 |
| W42.2K64-6.5s-00005 | 0,00005 | 0,25 | 2000 | 42200 |



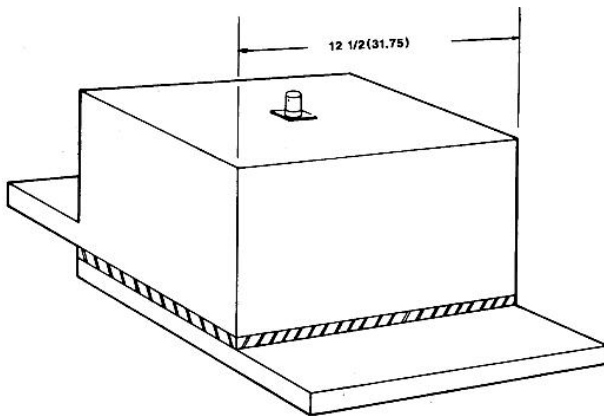
ORDERING INFORMATION

When ordering specify model number, and tolerance. Example: W2K4-6.5s-0025.

W-flange input 12.5s type

| Model - Group A | Resistance ohms | Bandpass MHz. | Risetime nsec. | Emax joules |
|----------------------|-----------------|---------------|----------------|-------------|
| W980J1-12.5s-005 | 0,005 | 300 | 1,5 | 980 |
| W1.1K2-12.5s-0025 | 0,0025 | 200 | 2 | 3300 |
| W3.2K4-12.5s-001 | 0,001 | 48 | 8 | 3200 |
| W6.7K8-12.5s-0005 | 0,0005 | 12 | 30 | 6700 |
| W11.4K10-12.5s-0005 | 0,0005 | 8 | 45 | 11400 |
| W13.2K16-12.5s-00025 | 0,00025 | 3,2 | 113 | 13200 |
| W22.1K20-12.5s-00025 | 0,00025 | 2,2 | 164 | 22100 |
| W21.1K32-12.5s-0001 | 0,0001 | 1 | 250 | 21100 |
| W35.9K40-12.5s-0001 | 0,0001 | 0,58 | 872 | 35900 |
| W42.2K64-12.5s-00005 | 0,00005 | 0,25 | 2000 | 42200 |

| Model | Resistance ohms | Bandpass MHz. | Risetime nsec | Emax joules |
|---------------------|-----------------|---------------|---------------|-------------|
| W2K1-12.5s-005 | 0,005 | 300 | 1,5 | 2000 |
| W3.3K2-12.5s-001 | 0,001 | 200 | 2 | 3300 |
| W6.5K4-12.5s-0005 | 0,0005 | 48 | 8 | 6500 |
| W13.7K8-12.5s-00025 | 0,00025 | 2 | 30 | 13700 |
| W23K10-12.5s-00025 | 0,00025 | 8 | 45 | 23000 |
| W21K16-12.5s-0001 | 0,0001 | 3,2 | 113 | 21000 |
| W35K20-12.5s-0001 | 0,0001 | 2,2 | 164 | 35000 |
| W42K32-12.5s-00005 | 0,00005 | 1 | 250 | 42000 |
| W72K40-12.5s-00005 | 0,00005 | 0,58 | 872 | 72000 |
| W84K64-12.5s-000025 | 0,000025 | 0,25 | 2000 | 84000 |



ORDERING INFORMATION
When ordering specify model number, and tolerance. Example: W6.7K8-12.5s-0005.

Picture: W Flange - Series

contact:
Ing. Büro M. Billmann
 Mr. Markus Billmann
 Lerchensteige 10
 91448 Emskirchen
 Tel.: +49-(0)9104-8235-88
 Fax: : +49-(0)9104-8235-89
 mobil: +49-(0)171-9987802
 email: M.Billmann@ib-billmann.de
 VAT: DE161958267
 ST-Nr: 252/205/10487