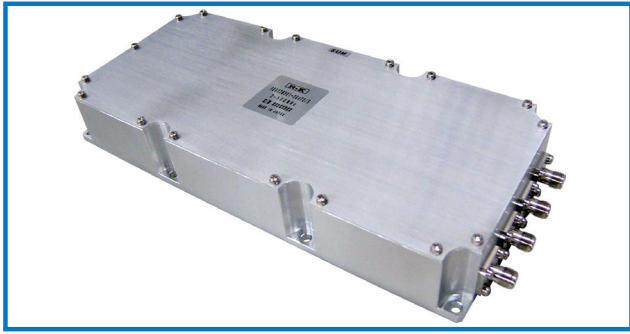


# HIGH POWER DIVIDER/COMBINER

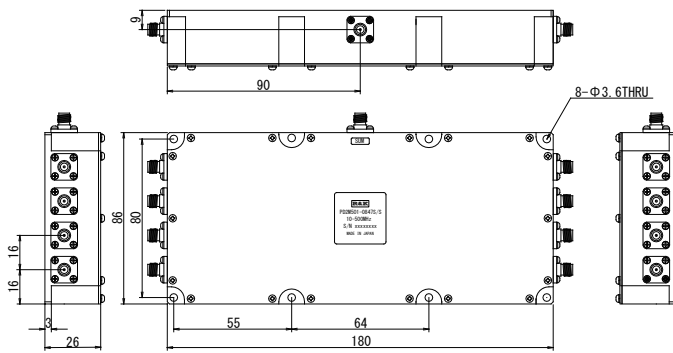


## R&K-PD002M501-0847S/S



### OUTLINE DRAWING

※IN MILLIMETERS



- Frequency Range : 2MHz ~ 500MHz
- 8way-0°
- High Power  $\geq 50W$
- Power Divider and Combiner

### SPECIFICATIONS @ +25°C

|  |                  |
|--|------------------|
| Frequency Range  | : 2MHz ~ 500MHz  |
| Insertion Loss<br>(Except Theoretical Loss 9.0dB)                              | : 1.3dB (max.)   |
| Amplitude Balance  | : 0.5dB (max.)   |
| Isolation  | : 14.5dB (min.)  |
| Phase Balance  | : 10° (max.)     |
| Phase Difference   | : 0°             |
| Between Output Ports   |                  |
| Return Loss (All Ports)  | : -15.0dB (max.) |
| Impedance  | : 50 $\Omega$    |
| Maximum RF Input Power<br>(Total Combined Power at SUM Port) (1.2:1 Load VSWR) | : 50W @ +25°C    |
| Operating Temperature  | : -20°C to +45°C |
| Storage Temperature  | : -20°C to +75°C |
| Connectors (Standard)  | : SMA-FEMALE     |
| Connectors (Option)  | : BNC-FEMALE     |
| Weight (SMA Connector)   | : 750g (typ.)    |

Caution : Absolute Maximum (surface of Base Plate) temperature of this products must be < +85°C  
Proper Cooling must be required.

### HOW TO ORDER

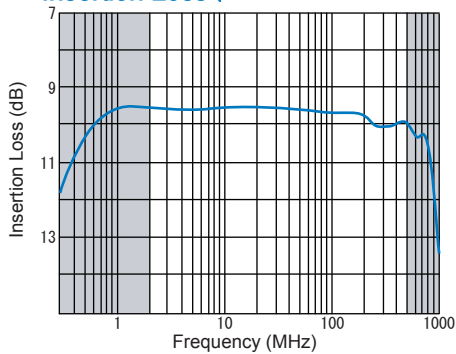
Model Name  
R&K-PD002M501-0847S/S

Other Port : S = SMA - FEMALE  
                  B = BNC - FEMALE

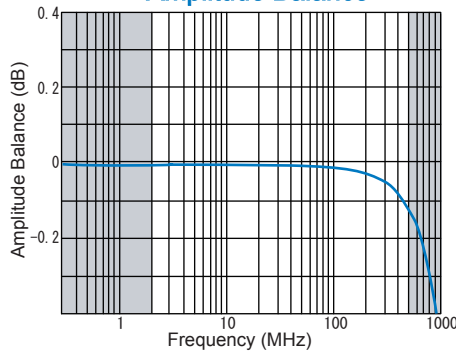
SUM Port : S = SMA - FEMALE  
              B = BNC - FEMALE

### TYPICAL PERFORMANCE (Temp @+25°C)

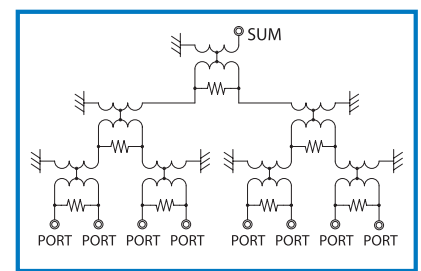
Insertion Loss (9dB theoretical Loss included)



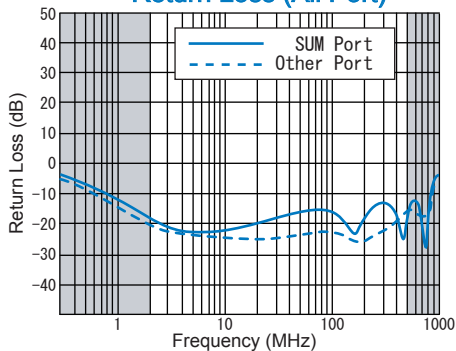
Amplitude Balance



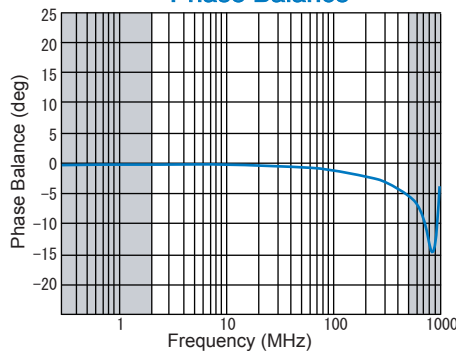
SCHEMATIC



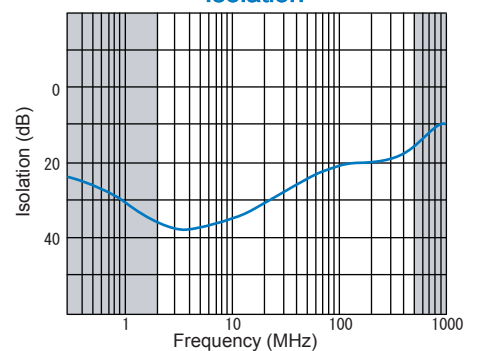
Return Loss (All Port)



Phase Balance



Isolation



R&K reserves the right to make changes in the specifications of or discontinue products at any time without notice. R&K products shall not be used for or in connection with equipment that requires an extremely high level of reliability and safety such as aerospace uses or medical life support equipment. Further, R&K cannot export products to any country for use in military or defense applications.

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