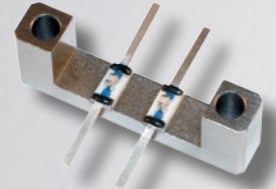


# Feedback Resistors



We've recently developed a line of feedback resistors to support wideband RF/Microwave solid state transistor power amplifiers which require resistive feedback. Using negative resistive feedback is a simple way to improve transistor amplifier stability and frequency gain sloping. Our new feedback resistors are flange mounted and designed to fit directly over the RF/microwave transistor using the same mounting holes as the transistor. This mounting configuration utilizes normally unused space above the transistor without taking up valuable pcb area adjacent to the transistor. In addition to saving space this mounting arrangement decreases parasitic inductance associated with the resistor leads by providing for the shortest lead length possible between the transistors input and output. The short lead length and corresponding lower inductance allow for higher frequency operation.

Our feedback resistors are constructed using nickel-plated aluminum flanges with BeO ceramic resistors, providing excellent thermal conductivity and low parasitic capacitance. These products are available in a range of resistor values and power levels to match various applications. Flange styles are designed with mounting holes to match up with many popular transistor footprints. Feedback resistors are available with or without DC blocking capacitors with values which can be customized as required.



PART NUMBER	POWER PER RESISTOR (WATTS)	FREQUENCY (MHz)	RESISTOR VALUE (OHMS)	RESISTOR CAPACITANCE VALUE (pF)	DC BLOCKING CAPACITANCE (pF)	FLANGE SIZE (INCHES)	RESISTORS PER FLANGE
IPP-RB401-100	15	DC - 3000	100	0.75	N/A	0.225 x 0.689 x .330	Single
IPP-RB401-200	15	DC - 3000	200	0.75	N/A	0.225 x 0.689 x .330	Single
IPP-RB401-100-0100	15	DC - 3000	100	0.75	100	0.225 x 0.689 x .330	Single
IPP-RB401-200-0100	15	DC - 3000	200	0.75	100	0.225 x 0.689 x .330	Single
IPP-RB402-100	15	DC - 3000	100	0.75	N/A	0.225 x 0.800 x .375	Single
IPP-RB402-200	15	DC - 3000	200	0.75	N/A	0.225 x 0.800 x .375	Single
IPP-RB402-100-0100	15	DC - 3000	100	0.75	100	0.225 x 0.800 x .375	Single
IPP-RB402-200-0100	15	DC - 3000	200	0.75	100	0.225 x 0.800 x .375	Single
IPP-RB403-100	15	DC - 3000	100	0.75	N/A	0.225 x 1.140 x .375	Dual
IPP-RB403-200	15	DC - 3000	200	0.75	N/A	0.225 x 1.140 x .375	Dual
IPP-RB403-100-0100	15	DC - 3000	100	0.75	100	0.225 x 1.140 x .375	Dual
IPP-RB403-200-0100	15	DC - 3000	200	0.75	100	0.225 x 1.140 x .375	Dual

# Custom Products

At Innovative Power Products we realize that not every project can use one of our standard products, therefore a good portion of our business is designing and manufacturing custom solutions to fit your exact specifications. Our experience in amplifier design, assembly and testing enables us to fully understand your system requirements. Discover the benefits of integrating your design team with our engineers to assist with the initial architecture and optimize your design. Our Customer Service and Engineering staff is readily available to discuss your particular application. Contact us about your upcoming project.

## Our Custom Services Include:

- Product Integration
- Custom Configurations
- Custom Resistor Assemblies
- Contract Manufacturing Services
- Engineering Design Services
- Low PIM Products
- 180° Products
- Directional Couplers with Detectors
- 2-Way up to 32-Way Combiners
- Serial Combiners
- Radial Combiners
- 4-way: 90° Coupler with Integrated Balun
- Impedances other than 50 Ohms

