



DAYTON
PHOENIX
GROUP



resistors

Our Dynamic Braking Resistors provide the following benefits:

- OEM Supplier to both GE & EMD
- Years of field-proven reliability
- Best-in-class life-cycle cost reductions
- 27-month warranty
- A full range of designs servicing locomotives 50+ years old are available
- Custom-engineered designs available utilizing proven design concepts
- Readily available in many sizes
- Factory tested
- Test the product to your specified requirements
- Specialize in both high and low volumes

Dayton-Phoenix Group products are engineered to move, and our resistors keep you moving.

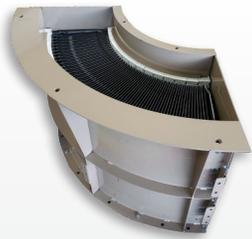
Dayton-Phoenix lab and field tested, OEM spec certified, High Power Resistors and Dynamic Braking Systems are all about performance. With features, such as:

- Our 50+ year engineering expertise in hatch design, layout, and fan/motor assemblies result in having the ability to design the optimal system for your old, or new, application.
- Innovative design features in insulation, resistive element, and case technologies and a flexible design system that allows us to adapt design concepts and materials to a product that best meets your needs. Result: a quality product that is right for your application at a competitive price.
- Power levels up to and exceeding 1 MW per resistor
- Dynamic braking designs exceeding 940 amps and 2800 volts (bus).
- Resistance tolerances as tight as +/- 1.5%.

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Radial Resistor Grids



DPG Part#	OEM Part#
FR1278000	40010560
FR1279000	40010559
FR1367000	40010556
FR1368000	40010557

DPG Part#	OEM Part#
FR1369000	40010558
FR1288000	40108323
FR1289000	40108324
FR1476000	40201905
FR1477000	40201906
FR1488000	40072440 40168123
FR1489000	40072441 40168124
FR1458000	40170024
FR1459000	40170134
FR70QUAD KIT	40069700 40066957 40044648

Box Resistor Grids



DPG Part#	OEM Part#
FR1445000	40168646
FR285001	6968091
FR5141000	40085141 8185703
FR5142000	40085142 8185704
FR5143000	40085143 8185705
FR144000	40085144 8304193
FR5145000	40085145 8304194
FR5146000	40085146 8347464
FR54003	8445754

DPG Part#	OEM Part#
FR7011000	8187011
FR54003-CT	6962778
FR55003	8445755
FR7001-A	8212284
FR8001-A	8212285
FR9001-A	8212286
FR9501-A	8212287
FR152002	8445768
FR153002	8445767
FR1045000	9331050
FR1082000	40149849
FR1051	9331051
FR4284-1	9561017
FR4288-2	9531560
FR4288-7	40017250
FR4288-8	40017249
FR4288-9	9337613
FR4288-10	9337614
FR4289-2	8339532
FR4289-3	8339533
FR1444000	40168644

Contact your representative for a complete listing of all resistors, including many more legacy part numbers not shown on this product sheet.

J Style AC & DC Resistors

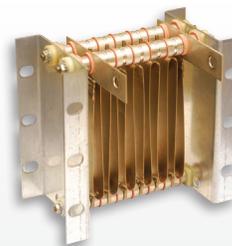


DC Resistors	
DPG Part#	OEM Part#
FR1109000	17EA32D109C
FR1110000	17EA32J110 17EA32D110
FR2143000	17EA32D143
FR2144000	17EA32D144
FR2144000AB	17EA32D144AB
FR2145000	17EA32D145
FR2146000	17EA32D146

AC Resistors	
DPG Part#	OEM Part#
FR2530000	17EA33J1060A 17EA33D106AC
FR1114000	17EA33J1138A 17EA33D114AC
FR1116000	17EA33J1160A 17EA33D116AC
FR1732000	17EA33J732 17EA33D732AC

AC Resistors, cont.	
DPG Part#	OEM Part#
FR1149E10	17EA33J149A 17EA33D149AC
FR2800000	17EA33J280 17EA33D280AC
FR1304000	17EA33J304 17EA33D304AC
FR1306000	17EA33J306 17EA33D306AC
FR3200000	17EA33J320 17EA33D320AC
FR1370000	17EA33J370 17EA33D370AC
FR4200000	17EA33J420 17EA33D420AC
FR1565000	17EA33J565 17EA33D565AC
FR1651000	17EA33J651 17EA33D651AC
FR1747000	17EA33J747 17EA33D747AC
FR1750000	17EA33J750 17EA33D750AC
FR7940000	17EA33J794 17EA33D794AC
FR1900000	17EA33J900A 17EA33D900AC
FR1945000	17EA33J945A 17EA33D945AC
FR1965000	17EA33J965A 17EA33D965AC 17EA33J970A 17EA33D970AC

Shunting Resistors



DPG Part#	OEM Part#
FR172001	8384617
FR21001	8004587
FR256001	8485235
FR275001	9317914
FR1406000	40257103
FR1404000	40240892
FR1402000	40153176
FR260001	8485233
FR1931000	40317680



**DAYTON
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full line provider

We design, manufacture and service an extensive line of world-class components for major systems of the modern locomotive...thousands of individual models for everything from cab comfort to engine protection... each one engineered to keep your business moving forward.