



Regal®

1 GHz Passive Power Inserter

Features

- High current rating for central powering application and new telephony services
- Standard fuse holders provide for bus bar or slow blow fuses
- Improved RF performance from 5 MHz to 1 GHz
- Aerial or pedestal installation with 5/8" port entry extensions
- Cast-in strip gauge facilitates proper center conductor trim length
- Conical center conductor to guide feeder line installation
- Glass epoxy printed circuit board with premium components for superior RF performance
- Plated 360 aluminum housing with double polyurethane coating resists corrosion
- Interlocking tongue and groove housing prohibits ingress/egress providing excellent EMI isolation
- Water tight, sealed housing eliminates water damage
- Stainless steel hardware



Application

The Regal power inserter allows ac power to be added to the trunk and feeder lines for the purpose of powering active devices.

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Specifications

Insertion Loss (Nominal)

Frequency (MHz)	5-10	11-50	51-300	301-400	401-500	501-600	601-900	901-1002
RPI-100-20A (SP)	1.1	0.8	1.2	1.0	1.2	1.0	1.6	1.6

Return Loss (In/Out, Min.)

Frequency (MHz)	5-10	11-50	51-300	301-400	401-500	501-600	601-900	901-1002
RPI-100-20A (SP)	16	18	18	18	18	18	16	16

Isolation (Min.)

Frequency (MHz)	5-10	11-50	51-300	301-400	401-500	501-600	601-900	901-1002
RPI-100-20A (SP)	60	60	60	60	60	56	52	52

Power Rating Input (RPI)	20 Amps AC/DC (input port), 60 - 90 Volts, 1 - 60 Hz
Hum Modulation @ 15 Amps 90 volts	5 - 100 MHz 50dB; 101 - 950 MHz 60 dB; 957-1GHz 55dB
Output Flatness	± 1.5 dB
Impedance	75 Ohms
Hard Line Surge	6 kV @ 3 kA
Drop Line Surge	2 kV @ 1 kA
EMI Shielding	100 dB, minimum
Water Tight	15 PSI
Line Connector Entry Specifications	¾ x 24 to SCTE Specification IPS-SP-500
Pedestal Port Spacing	3.0 inches (center to center)
Physical Dimensions	5.25 x 4.5 x 2.5 inches (L x W x H)
Torque Specifications	Housing closure screws: 20-30 in. lbs.
Operating Temperature Range	-40 °C to + 60 °C

Specifications are subject to change without notice.

Ordering Information

ARRIS#	Mfg#	Description
251400	RPI-100-20A	1 GHz, 20 amp Widebody Power Inserter

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