



Regal®

In-Line Equalizer



Features

- In-line equalizers have 12 amp current capacity
- Aerial or pedestal installation with 3/8" port entry extensions
- Cast-in strip gauge facilitates proper center conductor trim length
- Conical plastic center to guide feeder line installation
- Water tight, sealed housing eliminates water damage
- Stainless steel hardware
- improved RF performance from 5 MHz to 1 GHz
- 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 and provides excellent EMI isolation

Application

Regal in-line equalizers provide either 10 or 12 dB of tilted frequency response and are used to compensate for the frequency response of the hard line cable.

In-Line Equalizer

Specifications

RLEQ-12-1000-42

1 GHz, In-Line Equalizer with 5-42 MHz Return

Return Loss (Return Path)

Frequency (MHz) 5-42

Return Loss (dB) 18

Return Loss (Forward Path)

| | | | | | |
|-----------------|--------|---------|---------|---------|----------|
| Frequency (MHz) | 54-200 | 201-450 | 451-550 | 551-750 | 751-1002 |
|-----------------|--------|---------|---------|---------|----------|

| | | | | | |
|------------------|----|----|----|----|----|
| Return Loss (dB) | 16 | 16 | 16 | 16 | 16 |
|------------------|----|----|----|----|----|

Nominal Cable Equalization 12 dB

Equalization (Slope) Linearity ± 0.7 dB maximum

Insertion Loss (Return Path)

Return Loss (dB) 0.7

Insertion Loss (Forward Path)

@ 54 MHz (dB) 10 ± 0.5

@ 1000 MHz (dB) <1.4

Current Capacity (amps) 10

Hum Modulation (dB) 65

EMI Isolation (dB) 100

Specifications are subject to change without notice

Ordering Information

| ARRIS# | Mfg# | Description |
|--------|-----------------|--|
| 252878 | RLEQ-12-1000-42 | Equalizer, In-line 1 GHz, 12 dB, 42 MHz Return |

The capabilities, system requirements and/or compatibility with third-party products described herein are subject to change without notice. ARRIS, the ARRIS logo, Auspice®, C3™, C4®, C4c™, Cadant®, C-COR®, CHP Max®, ConvergeMedia™, Cornerstone®, CXM™, D5™, Digicon®, Flex Max®, Keystone™, MONARCH®, n5™, nABLE™, nVision®, OpsLogic®, OpsLogic® Service Visibility Portal™, PLEXIS®, PowerSense™, Regal®, ServAssure™, Service Visibility Portal™, TeleWire Supply®, TLX®, Touchstone®, VoiceAssure™, VSM™, and WorkAssure™ are all trademarks of ARRIS Group, Inc. Other trademarks and trade names may be used in this document to refer to either the entities claiming the marks and the names of their products. ARRIS disclaims proprietary interest in the marks and names of others. © Copyright 2009 ARRIS Group, Inc. All rights reserved. Reproduction in any manner whatsoever without the express written permission of ARRIS Group, Inc. is strictly forbidden. For more information, contact ARRIS.

