



# 1 GHz Zinc Digital Drop Splitters

**REGAL®**

## application

Regal Zinc Digital Drop Splitters are specifically designed for use in any digital application. Blocking capacitors on the F-ports of each Regal Zinc Digital Drop Splitter allow us to achieve low intermodulation distortion figures that are essential when providing cable modem service.

## features

- Chromate treated zinc housing with tongue and groove epoxy sealed back
- Tin plated phosphorus bronze conical center conductor seizure mechanisms
- 1 GHz bandwidth with low loss characteristics
- Includes 1kV blocking capacitors
- UL® compliance
- Port values cast into housing
- ½" flat sealed F-ports
- Standard 1" spacing between F-port
- Printed wiring board
- Integrated mounting tabs and integral heavy duty grounding block

## benefits

- Exceptional CLI protection and EMI isolation – minimum 120 dB and durable construction
- Prevents ferrite core saturation and magnetization
- Improves return loss and isolation specifications
- Ensures consistent RF performance and high port isolation
- Supports present and future multimedia, telephony, RF and digital communications
- Improves electrical and mechanical contact and provides more secure weather resistant connection
- Flush with back of housing to provide easy mounting without tabs breaking
- Allows ports to be easily identified for the life of the splitter
- Provides ample space for installation for RG-11, traps, etc.
- Facilitates proper grounding without additional connections and material



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## SPECIFICATIONS

**Intermodulation (spurious signals and 2nd harmonics): -45 dBmV w/+55 dBmV return, after 6kV ring wave surge**

**Surge withstand: 6kV, 200 amp, 100 kHz ring wave – IEEE 587 (C62.41 - 1991) Category A3 standard**

**Horizontal Drop Splitters (High Corrosion Resistant Chromate Treated Zinc)**

### 2-Way Horizontal Splitter

**Model # ZDS2DGH10**

Frequency (MHz)	5-15	16-40	41-450	451-550	551-750	751-870	871-1000
Insertion Loss (dB)	3.5	3.5	3.5	3.8	3.7	3.7	4.0
Return Loss (dB)	30	30	35	35	30	30	30
Isolation (dB)	35	40	40	35	30	30	30
EMI Shielding (dB)	120	120	120	120	120	120	120

### 3-Way Horizontal Splitter

**Model # ZDS3DGH10**

Frequency (MHz)	5-15	16-40	41-450	451-550	551-750	751-870	871-1000
Insertion Loss (dB)	3.5/7.1	3.5/7.0	3.5/7.0	3.8/7.2	3.8/7.2	4.1/7.9	4.4/8.0
Return Loss (dB)	30	30	35	35	30	30	30
Isolation (dB)	35	40	40	35	30	30	30
EMI Shielding (dB)	120	120	120	120	120	120	120

### 4-Way Horizontal Splitter

**Model # ZDS4DGH10**

Frequency (MHz)	5-15	16-40	41-450	451-550	551-750	751-870	871-1000
Insertion Loss (dB)	7.2	7.0	7.0	7.5	7.5	7.5	8.0
Return Loss (dB)	30	30	35	30	30	30	30
Isolation (dB)	35	40	40	35	30	30	30
EMI Shielding (dB)	120	120	120	120	120	120	120

### 3-Way Balanced Horizontal Splitter

**Model # ZDS3BDGH10**

Frequency (MHz)	5-15	16-40	41-450	451-550	551-750	751-870	871-1000
Insertion Loss (dB)	6.0	6.0	6.1	6.5	6.5	6.7	7.0
Return Loss (dB)	30	30	35	30	30	30	30
Isolation (dB)	35	40	40	35	30	30	30
EMI Shielding (dB)	120	120	120	120	120	120	120

## ORDERING INFORMATION

### 1 GHz 120 dB EMI Horizontal

ARRIS #	Mfg #	Description	Bandwidth
702867	ZDS2DGH10	2-Way Horizontal Splitter	1000 MHz
702868	ZDS3DGH10	3-Way Horizontal Splitter	1000 MHz
702869	ZDS3BDGH10	3-Way Balanced Horizontal Splitter	1000 MHz
702870	ZDS4DGH10	4-Way Horizontal Splitter	1000 MHz

All units are 1 GHz, 120 dB EMI non-powerpassing. DC path is to ground. Specifications subject to change without notice.



1.888.353.9473 ■ [www.arrisi.com](http://www.arrisi.com) ■ [www.arrisstore.com](http://www.arrisstore.com)

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**Surge withstand: 6kV, 200 amp, 100 kHz ring wave – IEEE 587 (C62.41 - 1991) Category A3 standard**

**Vertical Drop Splitters (High Corrosion Resistant Chromate Treated Zinc)**

### 2-Way Vertical Splitter

**Model # ZDS2DGV10**

Frequency (MHz)	5-15	16-40	41-450	451-550	551-750	751-870	871-1000
Insertion Loss (dB)	3.5	3.5	3.5	3.5	3.7	3.7	4.0
Return Loss (dB)	30	30	35	35	30	30	30
Isolation (dB)	35	40	40	35	30	30	30
EMI Shielding (dB)	120	120	120	120	120	120	120

### 3-Way Vertical Splitter

**Model # ZDS3DGV10**

Frequency (MHz)	5-15	16-40	41-450	451-550	551-750	751-870	871-1000
Insertion Loss (dB)	3.5/7.1	3.5/7.0	3.6/7.2	3.9/7.5	3.9/7.5	4.4/7.9	4.4/8.0
Return Loss (dB)	30	30	35	35	30	30	30
Isolation (dB)	35	40	40	35	30	30	30
EMI Shielding (dB)	120	120	120	120	120	120	120

### 4-Way Vertical Splitter

**Model # ZDS4DGV10**

Frequency (MHz)	5-15	16-40	41-450	451-550	551-750	751-870	871-1000
Insertion Loss (dB)	7.0	7.0	7.0	7.0	7.5	7.5	8.0
Return Loss (dB)	30	30	35	35	30	30	30
Isolation (dB)	35	40	40	35	30	30	30
EMI Shielding (dB)	120	120	120	120	120	120	120

### 8-Way Vertical Splitter

**Model # ZDS8DGV10**

Frequency (MHz)	5-15	16-40	41-450	451-550	551-750	751-870	871-1000
Insertion Loss (dB)	10.5	10.5	11.0	11.0	11.5	11.5	11.5
Return Loss (dB)	30	30	35	35	30	30	30
Isolation (dB)	35	40	40	35	30	30	30
EMI Shielding (dB)	120	120	120	120	120	120	120

## ORDERING INFORMATION

### 1 GHz 120 dB EMI Vertical

ARRIS #	Mfg #	Description	Bandwidth
705507	ZDS2DGV10	2-Way Vertical Splitter	1000 MHz
705508	ZDS3DGV10	3-Way Vertical Splitter	1000 MHz
705509	ZDS4DGV10	4-Way Vertical Splitter	1000 MHz
705510	ZDS8DGV10	8-Way Vertical Splitter	1000 MHz

All units are 1 GHz, 120 dB EMI non-powerpassing. DC path is to ground. Specifications subject to change without notice.



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