

GHS/GSV SERIES DIGITAL CATV SPLITTERS

MODELS GHS-2 : GHS-3 : GHS-4 : GHS-8 : GSV-2 : GSV-3 : GSV-4 : GSV-6 : GSV-8



MODEL GHS-2



MODEL GHS-3



MODEL GHS-4



MODEL GHS-8



MODEL GSV-2



MODEL GSV-3



MODEL GSV-4



MODEL GSV-6



MODEL GSV-8

FEATURES

- **SCTE Compliant Flat-End F-Ports**
- **Enhanced Return Path Specifications**
- **Low Intermodulation Distortion**
- **Capacitor Decoupled**
- **130 dB RFI Shielding**
- **3-Way Ground Screw: Hex/Phillips/Slot**

CATV DIGITAL SPLITTERS

The **GHS** and **GSV** Series 1 GHz Splitters were designed to meet the latest digital and return path requirements.

BLACK LABEL GHS DIGITAL CATV SPLITTERS

MODELS GHS-2* : GHS-3* : GHS-4*

- **Smaller Housings for Tight Installations**
- **SCTE-Compliant Flat-End F-Ports**
- **Nickel Plated**



* POWER PASSING MODELS AVAILABLE - SEE PAGE 89

GHS/GSV SERIES DIGITAL CATV SPLITTERS

SPECIFICATIONS

| PARAMETER | FREQUENCY RANGE (MHz) | GHS-2 | | GHS-3 | | GHS-3B | | GHS-4 | | GHS-8 | |
|------------------------------|-----------------------|-------|-----|-----------|-----------|--------|-----|-------|-----|-------|------|
| | | TYP. | QC. | TYP. | QC. | TYP. | QC. | TYP. | QC. | TYP. | QC. |
| Insertion Loss (dB)(Max) | 5 - 15 | 3.5 | 3.6 | 3.7 / 6.9 | 3.8 / 7.0 | 5.6 | 5.8 | 7.0 | 7.1 | 10.7 | 11.2 |
| | 16 - 40 | 3.6 | 3.7 | 3.7 / 6.9 | 3.8 / 7.0 | 5.6 | 5.8 | 6.8 | 6.9 | 10.5 | 11 |
| | 41 - 450 | 3.7 | 3.8 | 3.7 / 7.0 | 3.8 / 7.0 | 6.2 | 6.5 | 7.0 | 7.1 | 11 | 11.5 |
| | 451 - 750 | 3.8 | 3.9 | 3.9 / 7.5 | 4.0 / 7.6 | 6.3 | 6.5 | 7.5 | 7.6 | 12 | 12.5 |
| | 751 - 1000 | 3.9 | 4.0 | 4.0 / 8.0 | 4.2 / 8.2 | 6.9 | 7 | 8.1 | 8.2 | 12 | 12.5 |
| Isolation (dB) | 5 - 15 | 26 | 25 | 30 | 22 | 25 | 20 | 30 | 22 | 24 | 20 |
| | 16 - 40 | 45 | 40 | 38 | 35 | 38 | 35 | 40 | 32 | 28 | 25 |
| | 41 - 450 | 31 | 30 | 30 | 25 | 28 | 25 | 30 | 25 | 28 | 25 |
| | 451 - 750 | 31 | 30 | 28 | 25 | 25 | 23 | 28 | 25 | 23 | 20 |
| | 751 - 1000 | 30 | 25 | 25 | 23 | 22 | 20 | 25 | 23 | 22 | 20 |
| Input Return Loss (dB)(Min) | 5 - 15 | 25 | 24 | 25 | 20 | 22 | 20 | 25 | 20 | 24 | 20 |
| | 16 - 40 | 26 | 25 | 28 | 24 | 25 | 22 | 28 | 24 | 26 | 22 |
| | 41 - 450 | 26 | 25 | 28 | 23 | 25 | 22 | 28 | 23 | 24 | 20 |
| | 451 - 750 | 26 | 25 | 28 | 20 | 23 | 20 | 25 | 20 | 23 | 20 |
| | 751 - 1000 | 25 | 22 | 24 | 20 | 22 | 20 | 21 | 20 | 22 | 20 |
| Output Return Loss (dB)(Min) | 5 - 15 | 26 | 24 | 25 | 22 | 24 | 20 | 25 | 20 | 24 | 20 |
| | 16 - 40 | 35 | 30 | 35 | 30 | 32 | 28 | 30 | 28 | 27 | 24 |
| | 41 - 450 | 26 | 25 | 30 | 23 | 25 | 22 | 28 | 23 | 25 | 21 |
| | 451 - 750 | 26 | 25 | 25 | 20 | 22 | 20 | 25 | 20 | 24 | 20 |
| | 751 - 1000 | 25 | 22 | 24 | 20 | 22 | 20 | 21 | 20 | 23 | 20 |

| PARAMETER | FREQUENCY RANGE (MHz) | GSV-2 | | GSV-3 | | GSV-4 | | GSV-6 | | GSV-8 | |
|------------------------------|-----------------------|-------|-----|-----------|-----------|-------|-----|-------|------|-------|------|
| | | TYP. | QC. | TYP. | QC. | TYP. | QC. | TYP. | QC. | TYP. | QC. |
| Insertion Loss (dB)(Max) | 5 - 15 | 3.3 | 3.5 | 3.5 / 6.8 | 3.6 / 6.9 | 6.8 | 6.9 | 9.1 | 9.2 | 10 | 10.5 |
| | 16 - 40 | 3.3 | 3.5 | 3.5 / 6.9 | 3.6 / 7.0 | 6.9 | 7.0 | 9.1 | 9.2 | 10.3 | 10.8 |
| | 41 - 450 | 3.6 | 3.8 | 3.8 / 7.4 | 3.9 / 7.5 | 7.4 | 7.5 | 9.9 | 10 | 11 | 11.5 |
| | 451 - 750 | 3.9 | 4.2 | 4.0 / 8.0 | 4.1 / 8.1 | 8 | 8 | 10.5 | 11 | 11.7 | 12.2 |
| | 751 - 1000 | 4 | 4.4 | 4.0 / 8.0 | 4.2 / 8.2 | 8.1 | 8.2 | 11.3 | 11.5 | 12.2 | 12.5 |
| Isolation (dB) | 5 - 15 | 26 | 20 | 35 | 23 | 29 | 24 | 24 | 23 | 30 | 25 |
| | 16 - 40 | 33 | 25 | 38 | 25 | 29 | 25 | 25 | 24 | 30 | 24 |
| | 41 - 450 | 35 | 22 | 36 | 22 | 30 | 25 | 23 | 22 | 25 | 22 |
| | 451 - 750 | 32 | 20 | 30 | 22 | 28 | 24 | 22 | 20 | 23 | 21 |
| | 751 - 1000 | 28 | 20 | 25 | 20 | 27 | 24 | 21 | 20 | 22 | 20 |
| Input Return Loss (dB)(Min) | 5 - 15 | 24 | 20 | 21 | 19 | 22 | 18 | 19 | 18 | 22 | 18 |
| | 16 - 40 | 27 | 22 | 23 | 21 | 24 | 20 | 21 | 20 | 25 | 22 |
| | 41 - 450 | 23 | 20 | 23 | 20 | 25 | 21 | 21 | 20 | 24 | 20 |
| | 451 - 750 | 24 | 18 | 22 | 20 | 22 | 18 | 20 | 18 | 23 | 19 |
| | 751 - 1000 | 24 | 18 | 21 | 18 | 21 | 18 | 19 | 18 | 22 | 18 |
| Output Return Loss (dB)(Min) | 5 - 15 | 22 | 20 | 20 | 18 | 21 | 18 | 17 | 16 | 22 | 18 |
| | 16 - 40 | 28 | 22 | 32 | 20 | 25 | 22 | 21 | 20 | 28 | 22 |
| | 41 - 450 | 31 | 20 | 26 | 20 | 28 | 25 | 21 | 20 | 24 | 20 |
| | 451 - 750 | 30 | 20 | 22 | 18 | 23 | 18 | 20 | 18 | 23 | 19 |
| | 751 - 1000 | 25 | 20 | 20 | 18 | 21 | 18 | 19 | 18 | 22 | 18 |

NOTE: All specifications typical unless otherwise noted