



Drop Splitters

RF COMMUNICATIONS

application

The digital-ready drop splitters provide optimum performance for QPSK and 16QAM cable-modem signals in the 15-40 MHz return path - and for 256 QAM at up to 1000 MHz in the forward path.

The toroid core design offers superior saturation characteristics for suppression of spurious signals and harmonics that may be caused by large cable-modem signals in the return path.

features

- ▣ Long-term surge protection is unequalled in the industry
- ▣ SCTE compliant F-ports
- ▣ Waterproof
- ▣ Ground-wire attachment for #6 wire
- ▣ Excellent spurious and harmonics performance
- ▣ Excellent return loss
- ▣ Excellent isolation
- ▣ 5-1000 MHz
- ▣ Balanced and unbalanced 3-way design
- ▣ Pre-installed mounting screws
- ▣ "Best -of-class" reliability
- ▣ Available in horizontal and vertical configurations



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TYPE OF PRODUCT		2-WAY SPLITTER		3-WAY SPLITTER				4-WAY SPLITTER		8-WAY SPLITTER	
Model Number		GSP-2ND/2NDV		GSP-3ND/3NDV (Unbalanced)		GSP-3NBD/3NBDV (Balanced)		GSP-4ND/4NDV		GSP-8NDV	
Parameters	Frequency (MHz)	Typical	Worst	Typical	Worst	Typical	Worst	Typical	Worst	Typical	Worst
Insertion Loss	5-550	3.3	3.5	3.0/6.5	3.5/7.0	5.3	5.5	6.6	7.0	10.5	10.5
	550-870	3.5	3.6	3.3/6.8	3.5/7.2	5.4	5.8	6.8	7.0	10.7	11.4
	870-1000	3.7	3.9	3.5/7.2	3.7/7.5	5.5	5.9	7.3	7.5	11.0	11.5
Return Loss (input)	5-15	27	20	27	20	27	20	26	20	25	20
	15-40	30	25	28	25	28	25	28	25	28	25
	54-1000	25	20	25	20	25	20	25	20	25	20
Return Loss (output)		32	20	28	20	28	20	30	20	25	20
		35	30	35	30	35	30	34	30	34	30
		25	20	25	20	25	20	23	20	23	20
Port-to-port Isolation		25	20	25	20	25	20	26	20	25	20
		40	35	40	35	40	35	42	35	40	35
		30	20	25	20	25	20	25	20	25	20
RFI Shielding	5-1000	>120 dB									
Spurious Signals/ Second Harmonics		-55 dBmV, measured with a 55 dBmV return input carrier (after surge test)									
Surge Withstanding Capability Five Alternating-Polarity Surges		IEEE C62.41-1991 100 kHz Ring Wave, category A3 (6 kV/200A), all ports									
Operating Temperature Range		-40 °C to +60 °C									
F-Connector		SCTE Compliant IPS-SP-400, waterproof sealed									
Housing		Corrosive protected, Zinc alloy die-cast, tin plated									
Waterproof		All ports withstand 15 lbs/inch for 1 minute									

The above specifications show typical performance, except where noted, at 68 °F, measured per SCTE and NCTA practices.

ORDERING INFORMATION

ARRIS #	Mfg #	Description
711580	GSP-2ND	2-Way Horizontal Splitter 1 Ghz with Conical Seizure Mechanism and Blocking Capacitors
711581	GSP-3ND	3-Way Horizontal Splitter 1 Ghz with Conical Seizure Mechanism and Blocking Capacitors
711582	GSP-3NBD	3-Way Balanced Horizontal Splitter 1 Ghz with Conical Seizure Mechanism and Blocking Capacitors
711583	GSP-4ND	4-Way Horizontal Splitter 1 Ghz with Conical Seizure Mechanism and Blocking Capacitors
711587	GSP-8NDV	8-Way Vertical Splitter 1 Ghz with Conical Seizure Mechanism and Blocking Capacitors
711584	GSP-2NDV	2-Way Vertical Splitter 1 Ghz with Conical Seizure Mechanism and Blocking Capacitors
711585	GSP-3NDV	3-Way Vertical Splitter 1 Ghz with Conical Seizure Mechanism and Blocking Capacitors
714389	GSP-3NBDV	3-Way Vertical Splitter Balanced Output 1 Ghz with Conical Seizure Mechanism and Blocking Capacitors
711586	GSP-4NDV	4-Way Vertical Splitter 1 Ghz with Conical Seizure Mechanism and Blocking Capacitors

