

DiGiTAL-1™

5-1000MHz CATV Splitters

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S A DiGiTAL-1™ CATV Splitters

DiGiTAL-1™ S A Series 1GHz splitters were designed to meet the latest digital performance standards for international cable distribution systems. DiGiTAL-1 PCB ensures unsurpassed insertion loss and return loss to 1Ghz ensuring high quality analog or digital signal transport.

Features and Benefits

- SCTE Compliant Flat-End F-ports
- Enhanced Return Path Specifications
- Low Intermodulation Distortion
- 130dB RFI Shielding
- Smaller housing for tight Installations
- SCTE-Compliant Flat-End F-ports

5-1000MHz Standard Splitter specifications (SA-Series)

- Tin-plated, zinc die cast housing with high precision machined SCTE compliant threaded ports.
- solder back -130dB RFI
- Standard grounding hole with steel mounting screws
- Glass PCB with micro strip design.
- Special magnetism resistant ferrite core prevents saturation.



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PARAMETER	FREQUENCY	CATV-2		CATV-3		CATV-3B		CATV-4	
	RANGE (MHz)	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	7.1
	16-40	3.6	3.7	3.7/6.9	3.8/7.0	5.6	5.8	6.8	6.9
	41-450	3.7	3.8	3.7/7.0	3.8/7.0	6.2	6.5	7	7.1
	451-750	3.8	3.9	3.9/7.5	4.0/7.6	6.3	6.5	7.5	7.6
	751-1000	3.9	4	4.0/8.0	4.2/8.2	6.9	7	8.1	8.2
Isolation (db)	5-15	26	25	30	22	25	20	30	22
	16-40	45	40	38	35	38	35	40	32
	41-450	31	30	30	25	28	25	30	25
	451-750	31	30	28	25	25	23	28	25
	751-1000	30	25	25	23	22	20	25	23
Input Return Loss (dB) (Min)	5-15	25	24	25	20	22	20	25	20
	16-40	26	25	28	24	25	22	28	24
	41-450	26	25	28/	23	25	22	28	23
	451-750	26	25	28	20	23	20	25	20
	751-1000	25	22	24	20	22	20	21	20
Output Return Loss (dB) (Min)	5-15	26	24	25	22	24	20	25	20
	16-40	35	30	35	30	32	28	30	28
	41-450	26	25	30	23	25	22	28	23
	451-750	26	25	25	20	22	20	25	20
	751-1000	25	22	24	20	22	20	21	20

S A DiGiTAL-1™ CATV Vertical Splitters											
PARAMETER	FREQUENCY	CATV-2V		CATV-3V		CATV-4V		CATV-6V		CATV-8V	
	RANGE (MHz)	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	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	19