



1GHz CATV Horizontal Digital Splitters

1GHz CATV Horizontal Digital Splitters Series

Our CATV passives have been engineered and manufactured to provide the highest performance and reliability. They ensure the best quality signal distribution possible for current HDTV, DOCSIS Data, Digital Voice and future interactive broadband networks.

Features:

- Enhanced 15-42MHz return path for superior output return loss and port to port isolation performance
- 6kV High grade voltage blocking capacitors on all ports to eliminate core saturation
- Meets or exceeds ANSI/SCTE 153 2008 for outdoor use
- Solid Zinc cast housing with bright Tin triple plating for durability in all environments
- 6kV ring wave surge protection on all ports, 6kV surge withstand, guaranteed second harmonics performance after 5 surges to each port of 6kV(per IEEE.C62.41.1991 Cat A3)
- Consistant, high RF performance from 5-1000MHz through extreme temperatures
- Operation Temperature of -40°C to +60°C

CATV Horizontal Digital Splitters									
Parameter	Bandwidth MHz	EAG-DiGi-2W-1G		EAG-DiGi-3W-1G		EAG-DiGi-3WB-1G		EAG-DiGi-4W-1G	
		QC	TYP	QC	TYP	QC	TYP	QC	TYP
Insertion Loss Maximum (dB)	5-15 Mhz	3.4	3.1	3.5/7.0	3.2/6.5	5.4	5.3	6.9	6.6
	15-42 MHz	3.4	3.3	3.5/7.0	3.2/6.5	5.5	5.3	7.0	6.6
	50-550 MHz	3.5	3.3	3.4/7.2	3.3/6.8	5.8	5.5	6.9	6.8
	550-870 MHz	3.8	3.6	3.9/7.6	3.7/7.5	6.2	6.0	7.6	7.3
	870-1000 MHz	4.0	3.7	3.9/7.8	3.7/7.5	6.7	6.3	7.9	7.5
Return Loss Input Minimum(dB)	5-15 Mhz	23	28	25	28	24	30	21	24
	15-42 MHz	27	30	25	27	26	32	24	32
	50-550 MHz	27	29	21	25	20	25	20	25
	550-870 MHz	24	26	21	25	20	24	22	25
	870-1000 MHz	21	26	21	26	20	23	20	24
Return Loss Output Minimum (dB)	5-15 Mhz	29	33	22	24	23	26	21	26
	15-42 MHz	41	45	34	42	30	35	32	38
	50-550 MHz	24	28	24	28	24	26	20	22
	550-870 MHz	21	25	23	26	22	25	22	25
	870-1000 MHz	21	26	22	30	22	25	21	25
Port/Port Isolation (Output/Output) Minimum (dB)	5-15 Mhz	29	32	30	34	28	32	25	33
	15-42 MHz	37	40	38	44	33	38	36	44
	50-550 MHz	27	29	30	32	34	37	26	30
	550-870 MHz	23	27	29	34	25	34	25	28
	870-1000 MHz	22	28	27	34	23	31	24	28
RFI (dB)	5-1000 MHz	-130	-120	-130	-120	-130	-120	-130	-120
Impedance	5-1000 MHz	75 Ohm							
Spurious Signals Including 2nd Harmonic	-45 dBmV after 6kV Ring Wave Surge measured with a 55 dBmB return input carrier								
Surge Protection	6kV Ring Wave per IEEE C62.41-1991 Category A3								
Waterproof test (Min)	15 PSI								
Operating Tempera- ture	-40°C to +60°C								
Corrosion Resistance	1000 hours of salt spray per ANSI/SCTE 143 2007								



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