

5-1000MHz Digital Broadband Splitters Vertical “P” Series

- Tin-plated zinc die-cast housing meets requirements of ATSM B117-90 electrostatic salt fog testing standards.
- Solder back tin-plated zinc die-cast back plate provides for -110dB RFI measured using SCTE IPS TP403A1 Rev1 test procedures.
- 4.5mm grounding lug complies with SCTE IPS SP208R08
- Housing has extra large mounting holes compliant to SCTE IPS SP205R.17I specs.
- High precision machined SCTE compliant threaded ports spaced on one-inch centers.
- Port end cap surface maintains a flat metallic interface of .038” complying with Cox Cable requirements.
- Patent pending gold plated 360-degree center conductor seizing pin is both durable and oxidation resistant maintaining a distortion free signal for digital data transmission.
- The seizing insert retains a seized center conductor up to 200 grams of pullout tension. Provides total pin contact to center conductor of .060”. Conforms to Cox cable center conductor retention specifications.
- All F ports weather sealed to withstand up to 15-PSI internal pressure.
- Glass PCB with micro strip design, SMD technology throughout.
- Input F port passes 6kv 200A@ .5us-100khz duty cycle ring wave surge test (IEEE62.41 Cat A3 standard)
- Built-in capacitors on all ports block DC and low frequency AC effectively removing sheath current flowing through ferrite cores reducing hum modulation.
- Proprietary magnetism resistant ferrite core prevents saturation and maintains a low inter-modulation distortion beyond 85dB for digital quality return path and HDTV signals.
- Second Harmonic -60dBmv measured with dual 55dBmv return carriers.
- -38dB high isolation from 5-45MHz for high-level upstream signals.
- Meets all applicable SCTE standards in effect at the time of manufacturing.
- Maintains temperature stability from -40C to 85C in port-to-port isolation, return loss and flatness.



8110PV



8113PV



8116PV

	8110PV 2 WAY	8112PV 3 WAY UNBALANCED	8002PV 3 WAY BALANCED	8113PV 4 WAY	8116PV 6 WAY	8118PV 8 WAY
Insertion Loss	TYP	TYP	TYP	TYP	TYP	TYP
5-15 MHz	3.3	3.4/7.0	5.3	7.0	10.0	10.5
16-45 MHz	3.3	3.4/7.0	5.3	7.0	10.0	10.5
46-400 MHz	3.3	3.4/7.0	5.3	7.0	10.2	10.5
401-750 MHz	3.5	3.5/7.2	5.7	7.2	10.5	11.0
751-1000 MHz	3.7	3.8/7.5	6.2	7.5	11.0	11.5
Input Return Loss						
5-15 MHz	25	21	21	21	23	21
16-45 MHz	30	25	25	24	25	22
46-400 MHz	28	25	25	25	25	23
401-750 MHz	25	22	23	25	29	22
751-1000 MHz	25	22	22	22	25	22
Output Return Loss						
5-15 MHz	25	22	22	21	23	21
16-45 MHz	35	30	25	24	25	22
46-400 MHz	35	25	25	25	25	23
401-750 MHz	30	25	23	25	29	22
751-1000 MHz	29	22	22	22	25	22
Out to out Isolation						
5-15 MHz	30	22	25	25	30	25
16-45 MHz	38	36	36	36	40	36
46-400 MHz	30	25	26	25	27	25
401-750 MHz	30	25	25	25	27	25
751-1000 MHz	30	25	25	25	25	25

Specifications subject to change without notice