

Broadband RF Splitters w/ DC Bypass Horizontal F Port 5 -1000Mhz Digitally Compliant

Specifications

Mechanical - Housing

- Tin-plated zinc die-cast housing, high quality plating has passed 1200 hours salt spray testing. Housing exceeds requirements of ASTM B117-90 Salt Fog testing standards.
- Solder sealed tin plated housing back plate provides beyond -110dB RFI shielding as measured utilizing SCTE IPS TP 403A1 Rev I test procedures.
- Bonding (Grounding) block complies with SCTE IPS SP208R08.
- Housing has extra large mounting holes compliant to ACTE IPS SP 205R.17i.

Mechanical – Connector F Ports

- Ports are on 1.0" centers compliant to SCTE IPS SP 206R.17i
- Ports are machine threaded and are comply with ANSI/SCTE 02 1997 F port specifications.
- Port end cap surface has flat metallic interface of .038" min complying with Cox Cable requirements, issued June 2004.
- Weather sealed F ports provide up to 15 P.S.I. complying with Time Warner Cable specifications issued August 1998.
- Patent pending, gold plated, beryllium copper center conductor seizing inserts are durable, resist oxidation and maintaining a distortion free signal for digital data transmission.
- The seizing insert retains seized center conductor up to pullout tension up to 200 grams on .032" diameter conductors. Provides total pin contact to center conductor of .060". Device complies with Cox Cable specifications.

Electrical - General

- Exceeds surge performance requirements of IEEE C62.41-1991 Cat A3 0.5us 100kHz ring wave 6kV on all F ports.
- **Patent Pending – DC bypass circuit overlays the DC path away from the RF ferrites. Power passing +18vdc @ 350ma**
- Glass PCB with micro strip design. SMT components used extensively.
- Blocking capacitors on all F ports not only block DC and low-frequency AC known as sheath currents. These blocking capacitors prevent any current from flowing through any of the devices ferrite windings.
- Special magnetism resistant ferrite core prevents saturation and maintains a low intermodulation distortion of 85dB for digital quality return path and HDTV signal. Utilizing Draft SCTE testing standard IPS TP 227 Rev 2.
- Second Harmonic -60dB measured with utilizing dual +55dBmV return carrier. Utilizing SCTE draft test procedure IPS TP 227 Rev 7.
- Temperature hardened components maintains low temperature stability within the range of -40°C and 85°C.

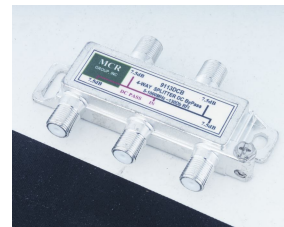
9110DCB – 2-Way Horizontal Port



9112DCB – 3-Way Horizontal Port



9113DCB – 4-Way Horizontal Port



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Technical Specifications (typical*)

	9110DCB	9112DCB (unbalanced)	9113DCB
Insertion Loss	TYP	TYP	TYP
5-14MHz	3.3	3.3/6.6	6.6
15-49MHz	3.3	3.3/6.6	6.5
50-400MHz	3.4	3.4/6.7	6.8
401-750MHz	3.5	3.4/7.0	7.0
751-1000MHz	3.6	3.7/7.1	7.1
Input Return Loss			
5-14MHz	26	29	25
15-49MHz	26	31	26
50-400MHz	26	27	26
401-750MHz	27	27	25
751-1000MHz	28	28	24
Output Return Loss			
5-14MHz	31	32	32
15-49MHz	36	35	35
50-400MHz	35	33	33
401-750MHz	33	28	30
751-1000MHz	30	28	27
Out to Out Isolation			
5-14MHz	38	35	35
15-49MHz	44	42	42
50-400MHz	32	40	36
401-750MHz	32	40	32
751-1000MHz	32	33	34
* Specifications subject to change without notice.			