

DiGiTAL-1™

4-1675MHz MoCA Digital Splitters

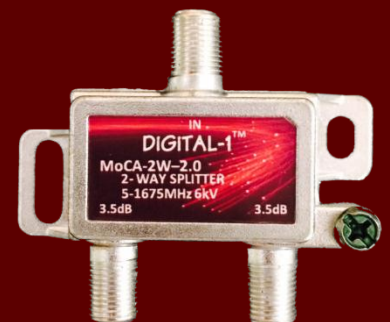
DiGiTAL-1™

MoCA-2.0 Broadband RF DiGiTAL-1™ Horizontal Splitters

DiGiTAL-1™ MoCA passives are designed and manufactured to provide the highest performance and reliability to allow home high speed networking, high definition video streaming, internet services and gaming to share bandwidth without losing consistent performance.

Features and Benefits

- 5-1675 MHz Bandwidth
- Low intermodulation distortion and protection against ferrites saturation
- Lower isolation and return loss for MoCA operations frequency to allow for better communications
- Solder back for 120dB RFI shielding effectiveness
- Zinc alloy die-cast housing, tin plated.
- 2nd Harmonics/ Typical -55 dBmv, Min -45 dBmv
- F connector, SCTE compliant IPS-SP-400
- Operation Temperature of -40°C to +60°C.
- Standard meets or exceeds SCTE 1PS SP 217 R02
- 360° gold plated center conductor pin enhanced 360° contacts engineered for maximum conductor contact and superior retention.
- Gold-plated, copper construction for prevention of common path distortion, impedance.
- Solid Zinc cast housing with bright Tin triple plating for durability in all environments
- Universal drive mounting and ground port screws packaged with each splitter
- Sealed ports to prevent moisture ingress to 15 PSI
- MoCA Compatible
- Expanded Pass Band (for future communication channels)
- Meets or exceeds ANSI/SCTE 153 2008 for outdoor use and environmental and Mechanical Requirements.
- Excellent return loss and port-to-port isolation in the return band (for MoCA communications).
- Tin-plated copper back plate provides minimum -130dB shielding effectiveness and superior defense against long-term corrosion factors.
- Weather-sealed “F” ports
- Machine threaded flat “F” ports.
- Operating temperature -40°C to +60°C
- Corrosion resistance, 1000 Hours of salt spray per ANSI/SCTE 143 2007



DiGiTAL-1™

4-1675MHz MoCA Digital Splitters

MoCa DiGiTAL -1™ Horizontal Splitters

PARAMETER		Bandwidth MHz	MoCA-2W		MoCA-3W		MoCA-4W	
			QC	TYP	QC	TYP	QC	TYP
			Insertion Loss (Max)	5-10 MHz	3.6	3.3	3.5/7.2	3.3/7.0
11-500 MHz	3.6	3.4		3.6/7.2	3.4/7.0	7.2	7.0	
501-750 MHz	3.7	3.5		3.7/7.2	3.5/7.0	7.2	7.0	
751-1002 MHz	3.8	3.6		3.8/7.5	3.7/7.2	7.2	7.5	
1003-1100 MHz	4.9	4.2		4.0/7.8	3.8/7.5	8.2	8.0	
1101-1675 MHz	6.8	5.5		5.5/11.0	5.5/10.5	11.0	10.5	
Isolation Loss OUT-OUT	(MIN)	5-15 MHz	22	28	20	22	25	22
		16-42 MHz	30	38	20	22	35	23
		43-500 MHz	26	28	18	20	26	20
		501-750 MHz	24	26	18	20	24	20
		751-1002 MHz	24	25	18	20	24	20
	(MAX)	1003-1200 MHz	25	25	25	25	25	25
	1201-1675 MHz	25	25	25	25	25	25	
Return Loss (MIN) Input	5-15 MHz	22	22	20	21	18	20	
	16-42 MHz	23	25	23	24	23	24	
	43-500 MHz	20	23	18	20	20	23	
	501-750 MHz	18	20	15	16	18	20	
	751-1002 MHz	18	20	14	16	18	20	
	1003-1200 MHz	15	15	12	15	15	16	
	1201-1675 MHz	12	15	10	12	10	12	



DiGiTAL-1™

4-1675MHz MoCA Digital Splitters

DiGiTAL-1™

DiGiTAL-1™ MoCA-2.0 Broadband RF Vertical Splitters

Features and Benefits

- 5-1675 MHz Bandwidth
- Low intermodulation distortion and protection against ferrites saturation
- Lower isolation and return loss for MoCa operations frequency to allow for better communications
- Solder back for 120dB RFI shielding effectiveness
- Zinc alloy die-cast housing, tin plated.
- 2nd Harmonics/ Typical -55 dBmv, Min -45 dBmv
- F connector, SCTE compliant IPS-SP-400
- Operation Temperature of -40°C to +60°C.
- Standard meets or exceeds SCTE 1PS SP 217 R02

MoCa Digital -1™ Vertical Splitters												
PARAMETER	Bandwidth MHz	MoCA-2WV		MoCA-3WV		MoCA-4WV		MoCA-6WV		MoCA-8WV		
		QC	TYP	QC	TYP	QC	TYP	QC	TYP	QC	TYP	
Insertion Loss (Max)	5-10 MHz	3.6	3.3	3.5/7.2	3.3/7.0	7.2	7.0	10.5	10.0	10.5	10.0	
	11-500 MHz	3.6	3.4	3.6/7.2	3.4/7.0	7.2	7.0	11.0	10.5	11.0	10.5	
	501-750 MHz	3.7	3.5	3.7/7.2	3.5/7.0	7.2	7.0	11.5	11.5	11.5	11.5	
	751-1002 MHz	3.8	3.6	3.8/7.5	3.7/7.2	7.2	7.5	12.0	12.0	12.0	12.0	
	1003-1100 MHz	4.9	4.2	4.0/7.8	3.8/7.5	8.2	8.0	14.0	13.5	14.0	13.5	
	1101-1675 MHz	6.8	5.5	5.5/11.0	5.5/10.5	11.0	10.5	19.0	18.0	19.0	18.0	
Isolation Loss OUT-OUT	(MIN)	5-15 MHz	22	28	20	22	25	22	22	28	25	22
		16-42 MHz	30	38	20	22	35	23	25	28	25	28
		43-500 MHz	26	28	18	20	26	20	23	25	23	25
		501-750 MHz	24	26	18	20	24	20	22	22	22	22
	(MAX)	751-1002 MHz	24	25	18	20	24	20	20	22	20	22
		1003-1200 MHz	25	25	25	25	25	25	33	33	33	33
Return Loss (MIN) Input	(MAX)	1201-1675 MHz	25	25	25	25	25	25	35	35	35	35
		5-15 MHz	22	22	20	21	18	20	17	18	17	18
		16-42 MHz	23	25	23	24	23	24	23	25	23	24
		43-500 MHz	20	23	18	20	20	23	20	23	20	23
		501-750 MHz	18	20	15	16	18	20	18	20	18	20
		751-1002 MHz	18	20	14	16	18	20	18	20	18	20
		1003-1200 MHz	15	15	12	15	15	16	10	15	10	16
1201-1675 MHz	12	15	10	12	10	12	5	10	5	10		



DiGiTAL-1™

4-1675MHz MoCA Digital Splitters

DiGiTAL-1™

DiGiTAL -1™ MoCA-2.0 Low Pass Filter MoCA

Filter can be used in MoCA applications to minimize MoCA energy on the cable TV feeder and to prevent interference between homes that use MoCA technology. The filter also acts as a reflector to minimize loss of the MoCA signal within the home.

Features and Benefits

- Suitable for MoCA Applications
- Pass Band 5-1000MHz; Stop band 1125-3000MHz
- Innovative design giving superior performance I a very small housing
 - SMT for superior stability
 - One piece design for reduced radiation
 - Solid mechanical construction –robust
 - 7/16" HEX head for convenience of installation
 - Waterproof at both ends to IEC529 IP67 standards (15psi)
- Surge protection is compliant with IEEE587 C62.41 CAT B3 (6kV/3000A)
- Salt spray performance is in compliance with SSCTE PS- TP- 406- all criteria satisfied after 500 hours conditioning
- F port conforms to ANSI/SCTE 01 2006
- RFI >100dB

	LPF001	Test (-dB)
	Bandwidth	QA
Insertion Loss (IN-OUT)	5-1002	1.5
	1125-1179	35
	1180-2600	50
	2600-3000	40
	5-65	20
Return Loss (ALL)	66-10002	15
	1125-1300	1
	1301-1550	1
	1551-3000	2.5
Group Delay	5-1002	5nsec
Dimensions	7/16" (HEX) X 41.5 (L)mm	
Weight	13.7g	
Operating Temperature	-20°C to +80°C	
Impedance	75Ω	