

RMS MoCA Filter and “ULTIMATE” Splitters

Broadband cable network operators who already have subscribers with homes pre-wired with coaxial cables, MoCA can be an attractive technology proposition. RMS has found that this is often the case in North America, where the technology is likely to have its largest user base.

Currently MoCA can deliver a throughput of up to 800Mbit/sec (net) of HD video, using the existing (or additional) internal coaxial house wiring. An added bonus is that there is no RF spectrum conflict between the new MoCA service and wireless networks. This means that a combination of MoCA connectivity to wireless access points can be used very effectively.

Every subscriber using MoCA requires a filter at the “demarcation (point of entry) point”.

RMS initially developed a range of RMS MoCA splitters with inbuilt MoCA filters on the “IN” port. Following successful MoCA product approval testing by a number of MSOs, RMS was asked to design and develop a *separate* MoCA filter and expanded bandwidth (1550MHz) splitters.



To differentiate the expanded bandwidth RMS splitters, they are marked “Ultimate”.

The MSOs conclusions were: -

- Existing RMS 1GHz splitters installed in subscribers’ homes worked with MoCA.
- MSO Cable Engineers believed that issuing installation technicians with MoCA filtered splitters could result in splitters being installed incorrectly (anywhere other than the demarcation point).
- A retrofit MoCA upgrade could be readily implemented in a subscriber’s home coaxial network by simply installing one RMS MoCA filter.



PARAMETER	FREQUENCY (MHZ)	LPF-1002/1125	
		TYP	QA
Insertion Loss (dB)	5-560	0.5	1.0
	860-1002	1.0	1.5
Return Loss (dB)	5-860	21	18
	860-1002	18	16
Rejection (dB)	1125-3000	45	40
RFI (dB)	5-3000	-130	-120
Impedance	5-3000	75 Ohm	
Housing	N/A		
Connector	Male/Female “F” Ports		
Screw Thread	3/8”-32UEF		
Waterproof Test	10 PSI		
Operating Temperature	-40°C to +60°C		

RMS offers the MoCA filters and expanded bandwidth (1550MHz) splitters under both the RMS brand and as “home-labelled” versions.