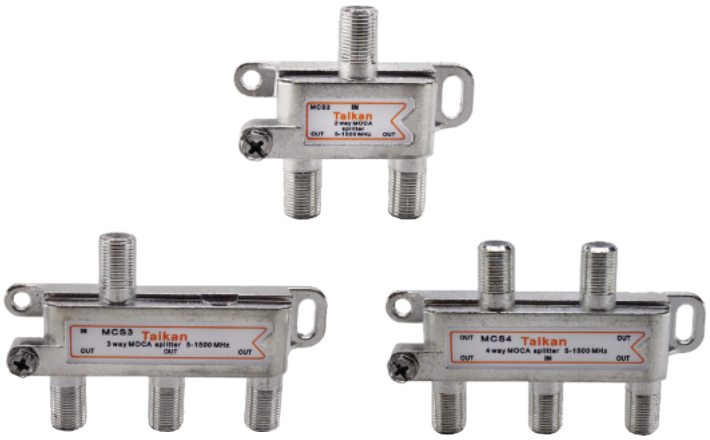
MoCA SPLITTERS [MCSx-x]

Cable Products, Drop Passives

Taikan ESTD. 1973

Features

- 5-1675 MHz Bandwidth
- Low Intermodulation Distortion and Protection Against Spikes and Ferrite Saturation
- Lower Isolation and Return Loss for MoCA Operation Frequency to Allow for Better Communication
- Solder Back for 120 dB 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 to +60 °C
- Standard Meets or Exceeds MoCA 2.0
- POE Filter Option Provides Superior Signal Loss Protection



Ordering Information

MCS [x] - [x]

- **F** for POE filter
- **2**, **3**, or **4** way

Model Number	Inner Box	Standard Carton	Carton Weight
MCS2-x	20 pcs	400 pcs	22 kg / 49 lbs
MCS3-x	20 pcs	200 pcs	25 kg / 55 lbs
MCS4-x	20 pcs	200 pcs	25 kg / 55 lbs

Insertion Loss (dB) *

Frequency	MCS2	MCS3	MCS4
5–400 MHz	3.7	3.8 / 7.0	7.0
400-750 MHz	4.0	4.2 / 7.5	7.5
750-1100 MHz	4.5	4.5 / 8.0	8.0
1100-1675 MHz	4.9	6.0 / 9.0	9.0

* *POE filter passband 5-1002 MHz*

Isolation (Min) (dB)

Frequency	MCS2	MCS3	MCS4
5–65 MHz	22	22	22
65-750 MHz	22	22	22
750-1002 MHz	20	20	20

Isolation (Max) (dB)

Frequency	MCS2	MCS3	MCS4
1125–1375 MHz	25	30	30
1375-1500 MHz	25	30	30
1500-1675 MHz	25	30	30

Input Return Loss (dB)

Frequency	MCS2	MCS3	MCS4
5–15 MHz	18	18	18
15-85 MHz	18	18	18
85-1002 MHz	18	18	18
1002-1218 MHz	15	15	15
1218-1675 MHz*	5	5	5

Output Return Loss (dB)

Frequency	MCS2	MCS3	MCS4
5–15 MHz	18	18	18
15-85 MHz	25	25	25
85-1002 MHz	18	18	18
1002-1218 MHz	15	15	15
1218-1675 MHz*	5	5	5

* *With POE filter passband 5-1002 MHz*

General Specifications

2nd Harmonics	Typical -55 dBmV, min -45 dBmV
F Connector	SCTE Compliant IPS-SP-400
Operation Temperature	-40 to +60 °C
RFI Shielding	-120 dB

CE

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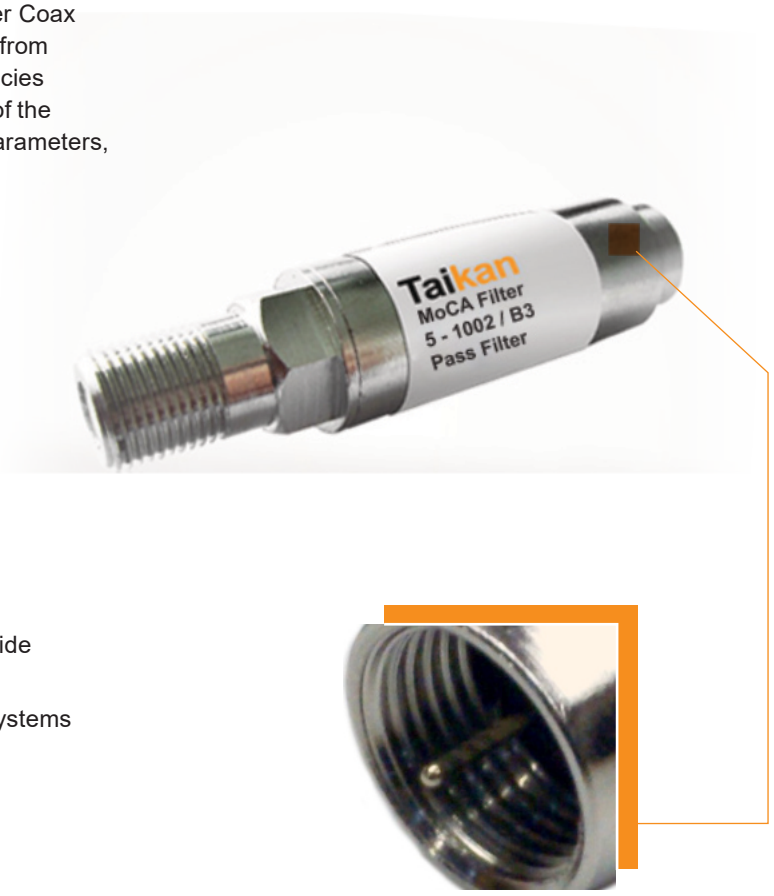
MoCA FILTER [MCF-x]

Cable Products, Mainline Drop Passives

Taikan ESTD. 1973

Description

Designed as a demarcation filter for homes utilizing Multimedia over Coax Alliance (MoCA ™) frequencies, the filter prevents MoCA channels from entering or exiting the home while leaving traditional CATV frequencies uninterrupted. The MoCA filter acts as a reflector to minimize loss of the MoCA signal within the home and features high performance RF parameters, including exceptional return loss and rejection.



Features

- SCTE & CE Compliant
- Class A RFI Shielding
- Small, Lightweight Construction Allows for Easy Installation
- SMD, High Stability
- Supports a 1 GHz Pass Band
- High Rejection Band
- Low Insertion Loss and Excellent Return Loss
- Prevents Interference Between Subscriber Homes that Employ MoCA Technology
- Waterproof – Can be Used Internally at the Point of Entry or Outside at the Tap
- Suitable for MoCA, CATV, Cablenet and Other Communication Systems

Ordering Information

MCF - **x**

A *for Cat. A3 or* ***B*** *for Cat. B3*

Electrical Specifications	***MIN***	***TYP***	***MAX***	***UNIT***
Impedance		75		Ohm
Frequency		5 - 1600		MHz
Pass Band		5 - 1002		MHz
Insertion Loss	.5	1.0	1.5	dB
Return Loss	16	18	20	dB
Stop Band		1125 - 1600		MHz
Rejection (1125-1600 MHz)	40	50	60	dB
Surge Withstand	**MCF-A:** Cat. A3 Waveform 6kV 200A		**MCF-B:** Cat. B3 Waveform 6kV 3000A	
Moisture Sealing		15		psi

Mechanical Specifications		
Dimensions	13(ø) x 63 (L)	mm
Housing	Copper Tube	
Connector Screw Thread	75 Ohm, Male-Female F type	
Connector	W 3/8” - 32 UNEF	in.
Net Weight	30	g

Screening efficiency meets EN 50083-2 Class A standard

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MoCA DIPLEXER [LBMDF]

Cable Products, Drop Passives

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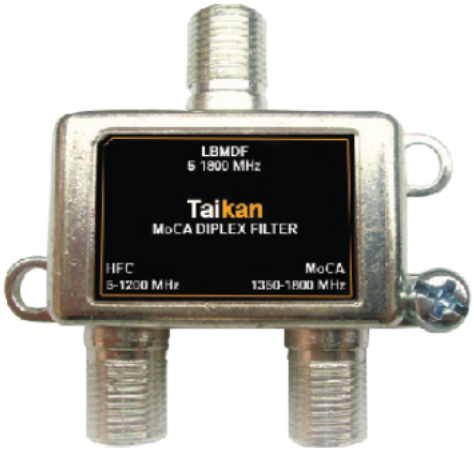
Features

- 5 - 1800 MHz Bandwidth
- Zinc Alloy Die-cast Housing
- Passband HFC Port 5 - 1200 MHz
- MoCA Port 1350 - 1800 MHz



Specifications

Frequency Range	5 - 1800 MHz
Impedance (all ports)	75 Ohm
Housing	Zinc alloy die-cast
Connector	75 Ohm female “F” type
Connector Thread	3/8” - 32 UNEF
Dimensions	18 x 75 x 46 mm (0.7 x 3 x 1.8 in.)
Net Weight	61 g (2.1 oz)

HFC Port

	Typ
Passband	5 - 1200 MHz
Rejection (1350-1400 Mhz)	30 dB
Rejection (1401-1800 Mhz)	40 dB

Insertion Loss

Frequency	
5 - 400 MHz	0.5 dB
401 - 1000 MHz	1 dB
1001 - 1200 MHz	2 dB

Isolation

Frequency	
5 - 1100 MHz	40 dB
1101-1200 MHz	30 dB

Input/Output Return Loss

Frequency	
5 - 400 MHz	10 dB
401 - 1000 MHz	10 dB
1001 - 1200 MHz	8 dB

MoCA Port

	Typ
Passband	1350 - 1800 MHz
Rejection (5 - 1100 Mhz)	40 dB
Rejection (1101 - 1200 Mhz)	30 dB

Insertion Loss

1350 - 1800 MHz	2 dB

Isolation

Frequency	
1350 - 1400 MHz	30 dB
1401 - 1800 MHz	40 dB

Input/Output Return Loss

1350 - 1800 MHz	8 dB

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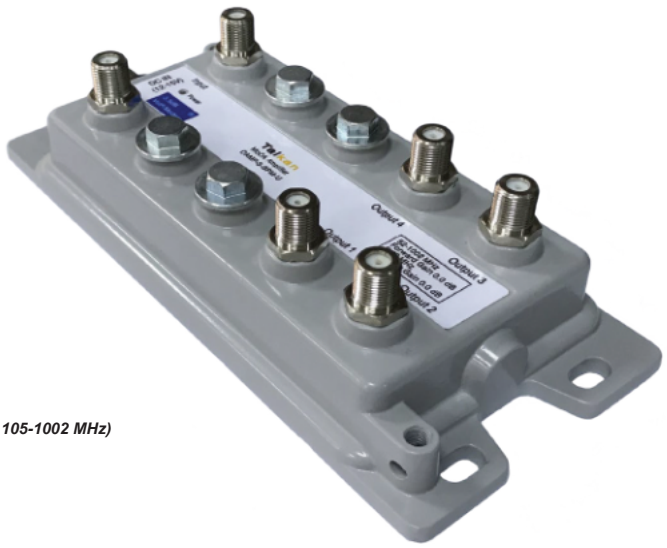
MoCA VOIP AMPLIFIER [AMP-5-BPM-x]

Cable Products, Drop Amplifiers

Taikan
ESTD. 1973

Features

- 4 Optimized MoCA Ports
- Passive VoIP Port for Critical Voice Service
- +0 dB Unity Gain on Forward and Return Paths
- 6kV Surge Resistance
- Powder Coated Aluminium Housing for Superior Corrosion Resistance
- Fully Backward Interoperable with MoCA 1.1
- Regional Power Adapter Included



Ordering Information

AMP-5-BPM - [x]

U (5-42 / 54-1002); E (5-65 / 85-1002); J (5-55 / 70-1002); M (5-85 / 105-1002 MHz)

Specifications

Frequency Range	5 - 1675 MHz
Impedance (all ports)	75 Ohm
Housing	Powder Coated Aluminium
Connector	75 Ohm Female “F” type
Connector Thread	3/8” - 32 UNEF
RFI Screening Effectiveness	-100 dB
Power Adapter	12 VDC 1 A, UL

Forward Path

Passband*	(54/70/85/105) - 1002 MHz
Gain	±1.5 dB
Isolation Port-Port	23 dB
Return Loss	18 dB
Noise Figure	4 dB

Distortions[1]

Composite Triple Beat	-75 dBc
Composite Second Order	-63 dBc
Cross Modulation	-70 dBc
Hum Modulation	-80 dBc

Return Path

Passband*	5 - (42/55/65/85) MHz
Gain	±1.5 dB
Isolation Port-Port	25 dB
Return Loss	18 dB
Noise Figure	7 dB

Distortions[2]

Discrete Second Order	-60 dBc
Discrete Third Order	-60 dBc
Cross Modulation	-65 dBc

MoCA Ports

Passband	1125 - 1675 MHz
Insertion Loss Out-Out	30 dB
Insertion Loss Out-VoIP	45 dB
Isolation Out-In	40 dB
Isolation VoIP-In	35 dB

**Customized Bandsplits Available*

VoIP Port

Passband	5 - 1002 MHz
Insertion Loss	5.5 dB
Return Loss	18 dB

Notes:

1. +10 dBmV flat input, analog channels from 54-550 MHz. Digital channels from 550-1002 MHz at 6 dB below the analog channels

2. Two +55 dBmV carriers at 13 MHz and 19 MHz

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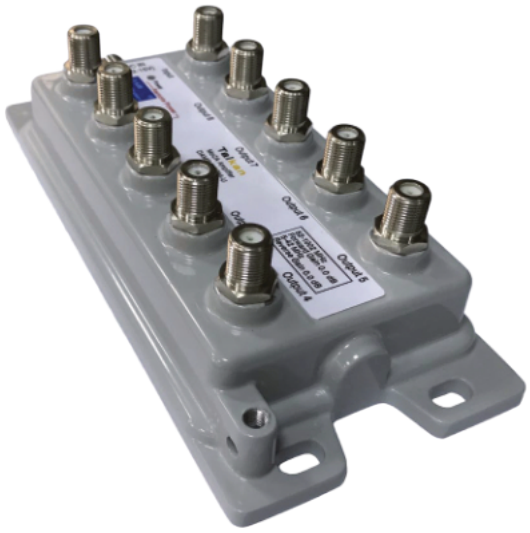
MoCA VOIP AMPLIFIER [AMP-9-BPM-x]

Cable Products, Drop Amplifiers

Taikan ESTD. 1973

Features

- 8 Optimized MoCA Ports
- Passive VoIP Port for Critical Voice Service
- +0 dB Unity Gain on Forward and Return Paths
- 6kV Surge Resistance
- Powder Coated Aluminium Housing for Superior Corrosion Resistance
- Fully Backward Interoperable with MoCA 1.1
- Regional Power Adapter Included



Ordering Information

AMP-9-BPM - [x]

***U** (5-42 / 54-1002); **E** (5-65 / 85-1002); **J** (5-55 / 70-1002); **M** (5-85 / 105-1002 MHz)*

Specifications

Frequency Range	5 - 1675 MHz
Impedance (all ports)	75 Ohm
Housing	Powder Coated Aluminium
Connector	75 Ohm Female “F” type
Connector Thread	3/8” - 32 UNEF
RFI Screening Effectiveness	-100 dB
Power Adapter	12 VDC 1 A, UL

Forward Path

Passband*	(54/70/85/105) - 1002 MHz
Gain	±1.5 dB
Isolation Port-Port	23 dB
Return Loss	18 dB
Noise Figure	4 dB

Distortions[1]

Composite Triple Beat	-75 dBc
Composite Second Order	-63 dBc
Cross Modulation	-70 dBc
Hum Modulation	-80 dBc

Return Path

Passband*	5 - (42/55/65/85) MHz
Gain	±1.5 dB
Isolation Port-Port	23 dB
Return Loss	18 dB
Noise Figure	7 dB

Distortions[2]

Discrete Second Order	-60 dBc
Discrete Third Order	-60 dBc
Cross Modulation	-65 dBc

MoCA Ports

Passband	1125 - 1675 MHz
Insertion Loss Out-Out	35 dB
Insertion Loss Out-VoIP	40 dB
Isolation Out-In	38 dB
Isolation VoIP-In	35 dB

**Customized Bandsplits Available*

VoIP Port

Passband	5 - 1002 MHz
Insertion Loss	5.5 dB
Return Loss	18 dB

Notes:

1. +10 dBmV flat input, analog channels from 54-550 MHz. Digital channels from 550-1002 MHz at 6 dB below the analog channels
2. Two +55 dBmV carriers at 13 MHz and 19 MHz

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