

BROADBAND DROP AMPLIFIERS WITH OPTIONAL MOCA & SELECTABLE MID-SPLITS

Flexible Features

Bi-Directional multimedia amplifiers for today's broadband services provide durability and flexibility. Options include available modem port that is passive allowing a battery back-up Modem to operate when power to the amplifier is lost. Available with optional MoCA compatibility, and with optional diplexer (Choose 42/54, 85/102, & 204/258 MHz Mid-Splits). Flexible remote powering options over coax. Water resistant ports to 15PSI with hardened Epoxy and sealed Aluminum case.



Power Supply
Included



General Specifications

- F Connector: 75-ohm
- Bandwidth 54 up to 1220 MHz, some models with 1.8GHz
- Multiple Diplex Configs Available
- Extended MoCa Freq Range Options
- ANSI/SCTE 81 2003 Compliant
- Follows SCTE115, 13 & 19 MHz channels at 55 dBmV/CH output, w/c of DSO at 6/32 MHz & DTO at 7/25 MHz
- 6kV Surge Protection with Power Supply Included
- Operating Temp Range -40 to +140 °F (-40 to +60 °C)
- Hardened Features, Watertight to 15 PSI
- Warranty: 2 years

1-Output Drop Amplifiers



Features:

- ★ Small size, aluminum alloy die-cast, sealed for excellent water resistance
- ★ Available 1.8 GHz available on some models
- ★ DOCSIS3.1 compatible
- ★ Frequency splits 42/54MHz, 65/85MHz, 85/102MHz and 204/258MHz optional
- ★ MX-RSA1510ADJ with built-in adjustable ATT to adjust gain



MX-RSA1510ADJ



MX-RSA1510



MX-SA151



Forward Path



Active Return



Passive Return

SPEC	Item	Specification		
	Model	MX-RSA1510ADJ	MX-RSA1510	MX-SA151
Forward Path	Frequency Range	54/85/102/258~1220MHz	54/85/102/258~1220MHz avail 1800MHz	54/85/102/258~1220MHz avail 1800MHz
	Gain	13dB	13dB	13dB
	Flatness	±1.5dB	±1.5dB	±1.5dB
	Return Loss	16dB	18dB	18dB
	Adjustable ATT	0~15dB	-	-
	CTB	-70dBc *	-70dBc *	-70dBc*
	CSO	-62dBc *	-62dBc *	-62dBc*
	Noise Figure	5dB	5dB	5dB
	Group Delay (3.58MHz bandwidth)	20ns	20ns	20ns
Return Path	Frequency Range	5~42/65/85/204 MHz	5~42/65/85/204 MHz	5~42/65/85/204 MHz
	Gain	8.5dB	8.5dB	-
	Insertion Loss	-	-	2dB
	Flatness	±0.75dB	±0.75dB	±0.75dB
	Return Loss	16dB	18dB	18dB
	Adjustable ATT	0~10dB	-	-
	DSO	-65dBc #	-65dBc #	-
	DTO	-57dBc #	-57dBc #	-
	Noise Figure	9dB	9dB	-
	Group Delay (1.5MHz bandwidth)	20ns	20ns	20ns

Maxcom Modeling/Ordering Matrix

Model Number	Bandwidth	Duplex - Sub Split	Power Adaptor
MX-XXXXXXX	XX	XX	XX
From Spec Chart	1G 1002 MHz	42 42/54 MHz	01 N. America
From Spec Chart	12 1220 MHz	65 65/85 MHz	02 E.U.
	18 1800 MHz	85 85/102 MHz	03 Other
		204 204/258 MHz	



*Note - 'M' MoCa Models only available with 1002 MHz due to MoCa Band of 1125~1675MHz



Power Supply Included

Specification:

*Test conditions: Multi channel signal source status: 79 channel output 70dBμV signals, while the other channels output 64dBμV signals.

†Test conditions: Input 13MHz&19MHz signal, amplifier output level 118dBμV, DSO test frequency point 6MHz&32MHz, DTO test frequency point 7MHz&25MHz.

Specifications subject to change without notice

4-Output Drop Amplifiers



Features:

- ★ Small size, aluminum alloy die-cast, sealed for excellent waterproof
- ★ Four RF output ports, DOCSIS3.1 compatible
- ★ Frequency splits 42/54MHz, 65/85MHz, 85/102MHz and 204/258MHz optional
- ★ MX-RSA004 series has an independent telephone port that can provide voice and data lifeline services in the event of a power outage.



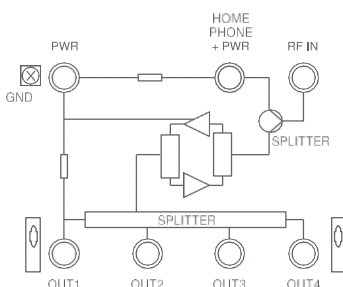
MX-RSA004SM



MX-RSA0F0R



MX-SA84EQ8



MX-RSA004SM



Power Supply Included

Item		Specification			
Model		MX-RSA004SM	MX-RSA0F0R	MX-SA84EQ8	
Forward Path	Frequency Range	54/85/102/258 ~1002MHz	54/85/102/258 ~1220MHz	54/85/102/258 ~1220 MHz	
	Gain	-1dB	-1.5dB	6dB (@1002MHz)	
	Flatness	±1dB	±1.5dB	±1dB	
	Insertion Loss	4.5dB	1.5dB	-	
	Return Loss	18dB	18dB	18dB	
	Isolation	54/85/102/258~ 1002MHz	24dB	24dB	24dB
		1002~1220MHz	-	22dB	-
	CTB	-70dBc *	-70dBc #	-70dBc #	
	CSO	-62dBc *	-62dBc #	-62dBc #	
	Noise Figure	11dB	6dB	4.5dB	
	Group Delay (3.58MHz bandwidth)	20ns	20ns	20ns	
Return Path	Frequency Range	5~42/65/85/204 MHz	5~42/65/85/204 MHz	5~42/65/85/204 MHz	
	Gain	-1dB	0.5dB	-	
	Insertion Loss	4.5dB	0.5dB	≤9dB	
	Flatness	±0.75dB	±0.75dB	±0.75dB	
	Return Loss	18dB	18dB	18dB	
	Isolation	24dB	24dB	24dB	
	DSO	-65dBc ※	-65dBc ※	-	
	DTO	-57dBc ※	-57dBc ※	-	
	Noise Figure	15dB	15dB	-	
	Group Delay (1.5MHz bandwidth)	20ns	20ns	20ns	
MoCA Band	Frequency Range	1125~1675MHz	-	-	
	Insertion Loss (OUT-OUT)	33dB	-	-	
	RF IN - Downstream	25dB	-	-	
	RF OUT Upstream	34dB	-	-	

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MX-XXXXXXX	XX	XX	XX
From Spec Chart	1G 1002 MHz	42 42/54 MHz	01 N. America
From Spec Chart	12 1220 MHz	65 65/85 MHz	02 E.U.
		85 85/102 MHz	03 Other
		204 204/258 MHz	

*Note - "M" MoCa Models only available with 1002 MHz due to MoCa Band of 1125~1675MHz

Specification:

*Test conditions: Multi channel signal source status: 79 channel output 74dBμV signals, while the other channels output 68dBμV signals.

#Test conditions: Multi channel signal source status: 79 channel output 70dBμV signals, while the other channels output 64dBμV signals.

※Test conditions: Input 13MHz&19MHz signal, amplifier output level 115dBμV, DSO frequency point 6MHz&32MHz, DTO test frequency point 7MHz&25MHz

Specifications subject to change without notice

8-Output Drop Amplifier



Features:

- ★ Small size, aluminum alloy die-cast, sealed for excellent waterproof
- ★ Eight RF output ports, DOCSIS3.1 compatible
- ★ Frequency splits 42/54MHz, 65/85MHz, 85/102MHz and 204/258MHz optional
- ★ MX-RSA008 series has an independent telephone port that can provide voice and data lifeline services in the event of a power outage



MX-RSA008SM



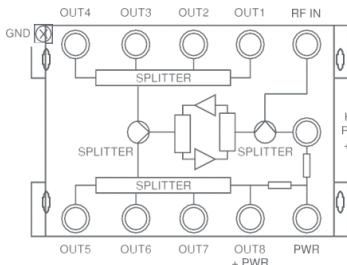
MX-RSA008S



MX-SA48



MX-RSA008S



Power Supply Included

	Item	Specification		
		MX-RSA008SM	MX-RSA008S	MX-SA48
Forward Path	Model	MX-RSA008SM	MX-RSA008S	MX-SA48
	Frequency Range	54/85/102/258 ~1002MHz	54/85/102/258 ~1220MHz	54/85/102/258 ~1220MHz
	Gain	-1dB	-1.5dB	3dB
	Flatness	±1dB	±1.5dB	±1dB
	Insertion Loss	4.5dB	5dB	-
	Return Loss	18dB	18dB	18dB
	Isolation	54/85/102/258 8~1002MHz	24dB	24dB
		1002~1220 MHz	-	-
	CTB	-70dBc *	-70dBc *	-70dBc #
	CSO	-62dBc *	-62dBc *	-62dBc #
	Noise Figure	11dB	11dB	4.5dB
	Group Delay (3.58MHz bandwidth)	20ns	20ns	20ns
Return Path	Frequency Range	5~42/65/85/204 MHz	5~42/65/85/204 MHz	5~42/65/85/204 MHz
	Gain	-1dB	-1dB	-
	Insertion Loss	4.5dB	5dB	12dB
	Flatness	±0.75dB	±0.75dB	±0.75dB
	Return Loss	18dB	18dB	18dB
	Isolation	24dB	24dB	24dB
	DSO	-65dBc ✖	-65dBc ✖	-
	DTO	-57dBc ✖	-57dBc ✖	-
	Noise Figure	17.5dB	17.5dB	-
	Group Delay (1.5MHz bandwidth)	20ns	20ns	20ns
	Frequency Range	1125~1675MHz	-	-
	Insertion Loss (OUT-OUT)	45dB	-	-
MoCa Band	RF IN -	Downstream	25dB	-
	RF OUT	Upstream	34dB	-

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		85 85/102 MHz	03 Other
		204 204/258 MHz	

*Note: "M" MoCa Models only available with 1002 MHz due to MoCa Band of 1125~1675MHz

Specification:

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#Test conditions: Multi channel signal source status: 79 channel output 70dBμV signals, while the other channels output 64dBμV signals.

✖Test conditions: Input 13MHz&19MHz signal, amplifier output level 115dBμV, DSO frequency point 6MHz&32MHz, DTO test frequency point 7MHz&25MHz.

Specifications subject to change without notice

