



# Multicom Line Passives

## PRODUCT SPECIFICATIONS

### FEATURES:



- CE Approved
- Fused Output Ports
- SA Compatible Housing
- Stainless Steel Hardware
- Aerial or Pedestal Mounting
- Heavy Duty Power Passing Choke
- 90° Swivel Entry Blocks for Easy Installation
- Glass Epoxy PCB (FR4-G10) with Protective Cover
- Dual Heavy-duty Neoprene and Wire Mesh Gaskets
- Interlocking Tongue & Groove Housing and Faceplate
- 360 Aluminum Alloy Die Cast Housing Sealed and Chromated
- Strip gauges on Housing and Heat Shrink Ridges on 5/8 - 24 Ports

### GENERAL SPECIFICATIONS:

Frequency Range:	5 MHz - 1 GHz
Frequency Response (Flatness):	+/- 0.5dB
Hum Modulation at 10 Amps:	70dB (Avg)
Power Passing 60/90VAC (Input):	15 Amps
Power Passing 60/90VAC (Output):	12 Amps
Fuse Rating:	15 Amps
Surge Protection:	C62.411-1991
Response Deviation:	<+/- 0.2dB MHz
RFI Shielding:	> -110dB
Impedance:	75 ohm

Part Number →	MPISAG	MSSA2G	MSSA3BG (balanced)	MSSA3UG (unbalanced)	MDCSA8G	MDCSA12G	MDCSA16G
Description →	Power Inserter	2 Way Splitter	3 Way Splitter	3 Way Splitter	8 dB Directional Coupler	12 dB Directional Coupler	16 dB Directional Coupler
<b>Typical Insertion Loss (dB - Maximum)</b>							
Direction →	RF/AC	In to Out	In to Out	In to Out	In to Out	In to Out	In to Out
5-50 MHz	0.6	4.0	6.4	4.0/7.5	1.8	1.2	0.9
50-100 MHz	0.5	3.8	6.2	3.9/7.4	1.5	1.1	0.8
100-300 MHz	0.6	3.8	6.3	3.9/7.4	1.5	1.2	0.8
300-450 MHz	0.7	3.9	6.3	4.1/7.7	1.6	1.3	0.9
450-600 MHz	0.7	4.2	6.3	4.2/7.9	1.8	1.3	0.9
600-750 MHz	0.7	4.3	6.5	4.5/8.1	2.1	1.4	1.0
750-870 MHz	0.9	4.7	7.1	4.7/8.2	2.4	1.6	1.5
870-900 MHz	1.1	5.1	7.4	5.0/8.6	2.8	1.9	1.8
900-1 GHz	1.2	5.3	7.6	5.2/8.8	3.2	2.4	2.2
<b>Tap Loss (dB - Minimum)</b>							
Direction →	N/A	N/A	N/A	N/A	In to DC	In to DC	In to DC
5-10 MHz	N/A	N/A	N/A	N/A	8.5+/-1.0	12.0+/-1.0	16.0+/-1.0
10-750 MHz	N/A	N/A	N/A	N/A	8.5+/-1.0	12.0+/-1.0	16.0+/-1.0
750-1GHz	N/A	N/A	N/A	N/A	8.5+/-1.0	12.0+/-1.0	16.0+/-1.0
<b>Typical Isolation (dB - Minimum)</b>							
Direction →	AC to RF/AC	Out1/Out2	Out 1/2 to 2/3	Out 1/2 to 2/3	Out to Tap	Out to Tap	Out to Tap
5-50 MHz	70	23	22	23	18	19	22
50-100 MHz	70	24	23	26	25	25	25
100-300 MHz	70	24	24	26	25	25	28
300-450 MHz	68	26	24	26	25	26	28
450-600 MHz	65	25	24	26	25	26	28
600-750 MHz	65	25	23	25	25	26	28
750-870 MHz	63	25	23	25	23	25	27
870-900 MHz	57	23	22	23	21	24	26
900-1 GHz	53	23	22	23	21	24	26
<b>Return Loss (Range Low - High)</b>							
Direction →	RF/AC-RF/AC	In to 1&2	In to 1/2/3	In to 1/2/3	In/Out & Tap	In/Out & Tap	In/Out & Tap
Range	18-21	17-20	17-20	17-20	17-20	17-20	17-20

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