

MMDS Signal Bender

Models MSE300, MSE7023, MSE8033, MSE8033DR



THE EMCEE MSE series signal benders are used to receive, amplify and redirect signals into areas where signal penetration is inadequate due to natural or man made obstacles, foliage absorption, or insufficient path clearance. The outdoor unit is convection cooled (no fans) for additional reliability and can be operated from either 12 VDC or 120/220 VAC sources. The drawer mounted unit is forced air cooled and is designed for operation @ 120/220 VAC input. The unit is available in three power output categories and coverage up to 5 miles can be expected depending upon input signal quality and propagation conditions.

	MSE300	MSE7023 with MSE 300	MSE8033 with MSE300	MSE8033DR with MSE300 (Rack Mounted)
¹ Frequency Band	2500 to 2700 MHZ	2500 to 2700 MHZ	2500 to 2700 MHZ	2500 to 2700 MHZ
¹ Noise Figure	1 dB max.	1.2 dB max.	1.2 dB max.	1.2 dB max.
Open Loop Gain	30 dB	70 dB	80 dB	80 dB
Flatness	±1.5 dB	±1.5 dB	±1.5 dB	±1.5 dB
Power Output per Channel	1 mW Composite	200 mW Composite	1 W Composite	1 W Composite
4 Channels	0.25 mW ea.	50 mW ea.	250 mW ea.	250 mW ea.
8 Channels	0.125 mW ea.	25 mW ea.	125 mW ea.	125 mW ea.
12 Channels	0.083 mW ea.	17.5 mW ea.	83 mW ea.	83 mW ea.
16 Channels	0.063 mW ea.	12.5 mW ea.	63 mW ea.	63 mW ea.
31 Channels	0.033 mW ea.	6.5 mW ea.	33 mW ea.	33 mW ea.
Maximum Composite Input	-35 dBm	-5 dBm	-5 dBm	-5 dBm
Recommended Composite Input	-45 dBm	-15 dBm	-15 dBm	-15 dBm
AGC Dynamic Range	N/A	25 dB	25 dB	25 dB
Operating Temperature	-40°C to +60°C	-40°C to +60°C	-40°C to +60°C	-40°C to +60°C
Input/Output Impedance	50 Ohms	50 Ohms	50 Ohms	50 Ohms
Input/Output Connector	"N"	"N"	"N"	"N"
Power Requirements				
120/220 VAC, 50/60 HZ	1 Watt	18 Watts	85 Watts	225 Watts
12 VDC	50 mA	1.1 A	5 A	N/A
Dimensions				
Length	9.25"	11.5"	11.5"	5.25" (Height)
Width	3.75"	9.25"	9.25"	19"
Depth	1.0"	6.75"	6.75"	15"

Specifications subject to change

¹ Note: Models for 2.0 - 2.2 GHz, 2.3 -2.5
and 3.6 - 3.8 GHz also available