

DBSMC1 Channelized Series (148-174 and 370-512 MHz)

Channelized Multicoupler

ELECTRICAL SPECIFICATIONS

Frequency Range, MHz	148-174 and 370-512
Noise Figure (typical), dB	3
Gain (typ), dB*	12
Amplifier IP3 (typ), dBm	40
Return Loss, dB	14
Impedance, Ohms	50
Attenuator Range, dB	0 to 15 dB in 1 dB increments
Limiting Level, dBm	+15
Limiter Recovery Time (typical), nsec	10
1 dB Compression Point (typ), dBm	+24

Power Source	
VAC	90-240, 50/60 Hz
VDC	12 (nominal)
Optional VDC	19-66

Power Requirement (per amplifier)	
AC, VA	< 30
DC, Watts	< 15
Optional DC, Watts	< 30

MECHANICAL SPECIFICATIONS

Finish	Black/Aluminum
Input Connector	N(F)
Output Connector	BNC
Mounting	EIA 19-inch Rack
Temperature Range, degrees	-30 to +60 C

DIMENSIONS

Width, in(mm)	19 (482.6)
Height, in(mm)	1.75 (44.5)
Height, RU	1
Depth, in(mm)	12 (304.8)
Weight, lb(kg)	6 (2.7)
Shipping Weight, lb(kg)	16 (7.3)

* Attenuator set to 0 dB.



DBSMC Channelized Series

FEATURES AND BENEFITS

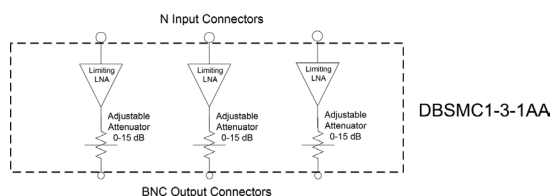
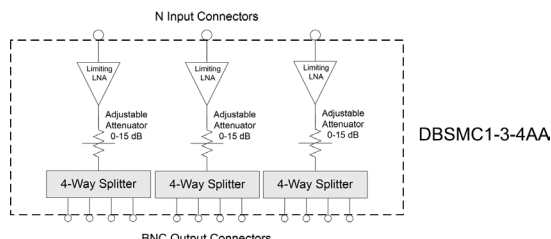
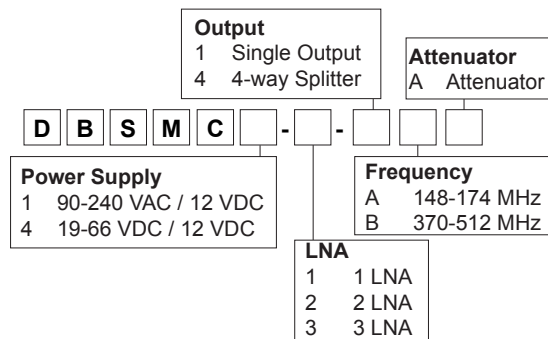
- Allows simplex system filtering and multicoupling and/or very close-spaced filtering.
- One RU, EIA 19" rack mount.
- Models to suit number of filter legs required and multiple outputs for window filter legs.
- Quadrature-coupled, low-noise RF amplifiers (LNA).
- RF limiters on each LNA to prevent overloading.
- 0 to 15 dB adjustable attenuators on each amplifier output for gain balancing.
- Excellent IM performance (IP3) for tough designs.

ORDERING INFORMATION

Model	Number of:			
	LNAs	Inputs	Outputs	Channels
DBSMCX-1-1AA	1	1	1	1
DBSMCX-2-1AA	2	2	2	2
DBSMCX-3-1AA	3	3	3	3
DBSMCX-1-4AA	1	1	4	4
DBSMCX-2-4AA	2	2	2 x 4	8
DBSMCX-3-4AA	3	3	3 x 4	12

X = 1 90-264 VAC/12 VDC

X = 4 19-66 VAC/12 VDC



Note¹: Proper receiver filtering must be used with any broadrange multicoupler.