

## DBSMCP Series (380-960 MHz)

Receiver Multicoupler with Power Distribution Unit, 8 or 16 Channels

Use with ATS or DB-Series TTA's (See TTA Section)

### ELECTRICAL SPECIFICATIONS

Frequency Range, MHz	See Ordering Information
Number of Channels	8 or 16
LNA Noise Figure (typ), dB	See Noise Figure chart
Overall Noise Figure, dB	4 (no adjustable attenuator or set to zero)
Bypass Relay	See Ordering Information
Gain (typ), dB	12 (8 channel), 8 (16 channel)
LNA Gain (typ), dB	31
Amplifier IP3 (typ), dBm	40
Receiver to Receiver Isolation, dB	20
Return Loss (typ), dB	14
Impedance, Ohms	50
1 dB Compression Point (typ), dBm	+24
<b>Power Source</b>	
VAC	90-240, 50/60 Hz
VDC	12 nominal
Optional VDC	19-66
<b>Power Requirement</b>	
AC, VA	< 30
DC, Watts	< 15
Optional DC, Watts	< 30

Alarm Monitoring	See Ordering Information
Adjustable Attenuator	0-15 dB in 1 dB increments
Digital Current Meter	See Ordering Information
Test Port	See Ordering Information

### MECHANICAL SPECIFICATIONS

Finish	Black/Gold alodine
Input Connector	N(F)
Output Connector	BNC-Female
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)	10.3 (260.4)
Net Weight, lb(kg)	4.5 (2)
Shipping Weight, lb(kg)	14 (6.3)

### FEATURES AND BENEFITS

- For use with Tower Top Amplifiers.
- Quadrature coupled low noise amplifier (LNA).
- Alarm sensors monitor the amplifier current and power supply voltage.
- Status LED's on the front panel indicate the status of the receiver multicoupler, tower top amplifier and power supply.
- 1 RU; 19-inch rack mount.
- Adjustable step attenuator is provided in front of the LNA for system net gain adjustment.
- PolyPhaser® Bias-T surge protector.
- Remote monitoring of alarms via dry contacts.

### LNA NOISE FIGURE

Frequency Range	Noise Figure (dB)
B	< 2.4 @ 450 MHz
C	< 1 @ 800 MHz

### ORDERING INFORMATION

**Alarm Options:**

- 2 Dual alarm (top & bottom), adjustable attenuator
- 3 Test port, dual alarm (top & bottom), adjustable attenuator
- 4 Digital current meter, test port, dual alarm (top & bottom), adjustable attenuator

**Frequency and Bypass Options**

B 380-512 MHz  
 C 700-960 MHz  
 E B + bottom bypass relay  
 F C + bottom bypass relay

**Power Supply**

1 90-240 VAC / 12 VDC  
 4 19-66 VDC / 12 VDC

**Number of Channels**

08 8 Channels  
 16 16 Channels

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All A/C units are supplied with direct DC and reverse polarity protection.

### ACCESSORIES

DBSMCP8EXP	8 Channel Expansion Kit; Includes: 8 and 2 way splitters, 2 cables
DB8922	50 Ohm BNC male termination for unused ports
DBSMCP100000	Power Distribution Unit (PDU only): for tower top amplifiers

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



DBSMCP  
Front View



DBSMCP  
Rear View