

ATS-series Tower Top Amplifiers (370-901 MHz) Built-in Quadrature Amplifier and Receive Bandpass Filter for Receiver Protection

ELECTRICAL SPECIFICATIONS

Model	Model with 7/16 DIN	Frequency Range MHz	Gain (typ) dB	Filter Bandwidth MHz	Noise Figure dB	Amplifier IP3 (typ) dBm	Return Loss (min), dB	Power VDC	Operating Current (typ), mA	Surge Suppression
ATS3TMA4	ATS3TMD4	370-400	14	2-4*	<4.5	46	14	15	500	18kA ANSI c62.1 8/20 Waveform 110 Joules
DB8982Y-TMA	N/A	456-460 466-470	16	Dual/2-4*	<4.5	46	14	15	500	
ATS4TMA4-4	ATS4TMD4-4	456-460 466-470	16	Single/2-4*	<4.5	46	14	15	500	
ATS5TMA3	ATS5TMD3	470-512	16	2-3*	<4.5	46	14	15	500	
ATS7TMA22	ATS7TMD22	794-816	19	22	<2.5	40	14	15	500	
ATS7TMA30	ATS7TMD30	794-824	17	30	<2.7	40	14	15	500	
ATS7TMA8	ATS7TMD8	798-806	18	8	<2.5	40	14	15	500	
ATS8TMA10	ATS8TMD10	806-816	18	10	<2.5	40	14	15	500	
ATS8TMA3	ATS8TMD3	806-824	17	3	<3.5	40	14	15	500	
ATS8TMA18	ATS8TMD18	806-824	18	18	<2.5	40	14	15	500	
ATS9TMA5	ATS9TMD5	896-901	19	5	<2.5	40	14	15	500	

Notes:

*Can be tuned to 2 MHz Passband – special Order

**Add 1.0 dB to Noise Figure for models with "-R" test port

MECHANICAL SPECIFICATIONS

Construction/Finish	Aluminum/White (UV protected)
Connector	N(F), 7/16 DIN available
Environmental Steeling	NEMA 4X
Mounting (included)	DB380, 2-3-inch pipe mount
Temperature Range, degrees	-30 to +60 C

DIMENSIONS

	UHF	700/800/900 MHz
Width, in(mm)	11.5 (292.1)	9 (229)
Height, in(mm)	31.3 (793.8)	21.3 (540)
Depth, in(mm)	13.3 (337)	13.3 (337)
Net Weight, lb(kg)	50 (22.7)	21 (9.5)
Shipping Weight, lb(kg)	60 (27.3)	31 (14.1)



FEATURES AND BENEFITS

- Excellent filtering before LNA for receiver system protection.
- Quadrature amplifier for better reliability, lower noise and higher IP3.
- Low loss filter, PolyPhaser® Bias-T lightning protection.
- Aluminum canister design for less wind loading and better weather protection.
- Receive signal improvement for long coaxial cable runs.
- Automatic bypass of top amplifier.
- Available Test Port option also requires test port option on PDU.

ORDERING INFORMATION

-R (add suffix to Model Number)	Test Port-Signal Injector: Provides for second transmission line input for testing with control to switch out antenna and switch in Test Port. (See following page)
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RXMC/PDUs

DBSMCP Series	Receiver Multicoupler/Power Distribution Unit: Alarm Monitoring and power through a Bias-T.
DBCNRX Series	Receiver Multicoupler/Power Distribution Unit: Alarm Monitoring and power through a Bias-T

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TEST PORT SIGNAL INJECTION OPTIONS

- Allows accurate receiver system sensitivity measurements.
- Antenna port can be terminated into a 50 Ohm load for static receive sensitivity testing.
- For use with DBSMCP Power Distribution Unit with alarm option that includes test port or DBCNRX Power Distribution Unit with DBCNINJKT Test Port Injection Kit.
- Order Tower Top Amplifier with “-R” option for the test port.
- Requires installing a second RF cable (higher loss is okay) for signal injection to Tower Top Amplifier.
- The test signal will be applied to the Tower Top Amplifier input through a 30 dB coupler in the Tower Top Amplifier enclosure.

