ATW-49SP

Active Antenna Splitter Kit

Features

- **Allows one set of antennas to feed two receivers or distribution systems**
- **Active device with unity gain compensates for RF signal loss**
- **Switchable power pass-through**
- **Broadband RF response (440-900 MHz)**
- **Rugged metal construction**
- **BNC connectors**
- **Includes four 18" BNC-BNC cables and two BNC-BNC barrels**

Description

The ATW-49SP active antenna splitter kit includes two one-input, two-output active antenna splitters along with appropriate RF cables to allow a single set of broadband antennas (i.e. ATW-A49 Wideband Directional UHF LPDA Antennas) to feed two band specific wireless receivers or antenna distribution systems.

Each antenna splitter is broadband device with a frequency range of 440-900 MHz. To compensate for RF signal loss associated with signal splitting, the Active Antenna Splitters provide unity gain; there is no RF signal loss from the original antenna signal.

The splitters are powered by 12V DC provided on the antenna cable by the associated wireless receiver or antenna distribution system that offers antenna power; a power active indicator illuminates when power is applied. An internal power pass-through switch enables the splitter to extend power (up to 100 mA) to connected devices if required. All RF terminations are standard BNC-type connections designed for use with 50 ohm RF devices. Constructed of extruded aluminum, each splitter is designed for long-life, continuous-duty applications. Each splitter kit includes four 18" BNC-to-BNC RG 58 coaxial cables along with two BNC -to-BNC (male to male) barrel adapters for connecting to associated equipment.

Architect's and Engineer's Specifications

The active antenna splitter kit shall consist of two active broadband antenna splitters along with appropriate RF jumper cables for connecting them to associated RF devices. Each splitter shall take a single antenna input and split it into two identical outputs. They shall be capable of passing an RF signal bandwidth of 440 MHz through 900 MHz with an operating impendence of 50 ohms and provide active unity RF gain to compensate for RF losses associated with signal splitting. The splitters shall operate on 5-14V DC power supplied to them through the RF cable by the associated wireless system or antenna distribution system. Each splitter shall draw no more than 30 mA current at 12V DC and an LED indicator on each splitter shall illuminate indicating power is present. All RF input and output connections shall be through standard BNC-type connectors and appropriate cables to connect the splitters to their associated RF devices shall be supplied. The splitters shall be constructed of extruded aluminum sides with aluminum top and bottom and shall be finished in a Mil C 5541 chemical film.

The Audio-Technica ATW-49SP is specified.

Specifications

Device type	2-Way Active Antenna Splitter
Bandwidth	440 MHz to 900 MHz
VSWR	< 1.7:1 (within specified bandwidth)
Gain	0 dB typical (within specified bandwidth)
Impedance	50 ohms, typical (within specified bandwidth)
Termination type	3-BNC female
DC Input	5-14V DC
Current consumption	30 mA @ 12V DC
Pass-through current	100 mA
Weight	51 g (1.8 oz)
Dimensions	61.0 mm (2.38") W x 47.0 mm (1.83") L x 23.0 mm (0.92") H

* Within specified bandwidth

In the interest of standards development, A.T.U.S. offers full details on its test methods to other industry professionals on request.

Specifications are subject to change without notice.

audio-technica

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