



### AC1686 Active Combiner

The Drake AC1686 Active Combiner is a high-quality headend combiner capable of combining up to 16 audio/video modulators and/or channel processors on to a single coaxial cable. Some of the outstanding features include:

- 16 RF signal Inputs.
- Front panel monitor output.
- Standard 19" rack mount panel, 1.75" high.
- Built in low noise figure, low distortion GaAs output amplifier for linear signal output.



| <b>AC1686 Technical Specifications</b> |   |
|--|---|
| Frequency Range:                       | 54-860 MHz  |
| Gain (any input to output):            | 3 dB typical, 0 dB minimum, 54-550 MHz<br>2 dB typical, -1 dB minimum, 550-860 MHz. |
| Input Adjustable Attenuator:           | Front panel setting, 0 to -15 dB  |
| Input Port-Port Isolation:             | 30 dB minimum 54-550 MHz, 25 dB minimum 550-860 MHz.                                |
| Maximum Input Level:                   | +60 dBmV (input attenuator set to limit output level to rated maximum)              |
| Output Return Loss:                    | 10 dB, typical  |
| Impedance:                             | 75 Ohms   |
| Monitor Output:                        | -20 dB below output, $\pm 2$ dB   |
| Operating Temperature:                 | 0 degrees C to + 50 degrees C ambient   |
| Composite triple Beat distortion:      | -60 dBc, 16 channels at maximum output level  |
| Cross Modulation Distortion:           | -60 dBc, 16 channels at maximum output level  |
| Maximum Output Level:                  | +48 dBmV each video carrier with 16 equal input NTSC signals.                       |
| Power Requirements:                    | 14 VAC, 700 mA, supplied by included AC adapter.                                    |
| AC Adapter Power Requirements:         | 115 VAC $\pm 10\%$ , 60 Hz  |
| Size:                                  | 19" (483 mm) W x 1.75" (44.5 mm) H x 4.0" (102 mm) D                                |
| Weight:                                | 4 lbs. (1.8 Kg.)  |

Specifications, price, and availability are subject to change without notice or obligation.



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