

ADB-CCC-301-AUMB

UHF Mask Filter / Combiner

Alan Dick Broadcast Limited's (ADBL) UHF Constant Impedance DVB-T/T2, ISDB-T, DTV Mask Filter / Combining Module provides outstanding performance in a compact design. The combiner module and filter provides excellent results in the bandpass and channel combining application, as well as providing mask filtering. Each unit is electrically and mechanically performance tested to ensure strict adherence to ADBL's superior level of quality. The combiner is designed for applications where size concerns are a premium.

- **UHF 470-860 MHz**
- **Up to 5.0kW average per Channel**
- **Rugged High Quality Design**
- **Constant Impedance (Balance Type)**
- **Integrated DTV Mask Filtering**

TYPICAL SPECIFICATIONS

| | | | |
|-------------------|--|----------------------------|------------------------------|
| Frequency Range | 470-860 MHz | | |
| Channel Spacing | Adjacent, 0 channel minimum | | |
| Filter Type | 8 poles / cavities, coaxial | | |
| VSWR | <1.10:1 | | |
| Channel Bandwidth | 6 MHz | | 8 MHz |
| Insertion Loss | (ATSC) | (ISDB-T) | (DVB-T2) |
| Narrowband (NB) | $f_0 < 0.75$ dB | $f_0 < 0.8$ dB | $f_0 < 0.7$ dB |
| NB Pass Bandwidth | $f_0 \pm 2.69$ MHz < 1.4 dB | $f_0 \pm 2.79$ MHz < 2.0dB | $f_0 \pm 3.885$ MHz < 1.9 dB |
| NB Rejection Mask | $f_0 \pm 3.50$ MHz > 15 dB | $f_0 \pm 3.15$ MHz > 14 dB | $f_0 \pm 4.200$ MHz > 12 dB |
| | $f_0 \pm 4.00$ MHz > 33 dB | $f_0 \pm 4.50$ MHz > 31 dB | $f_0 \pm 6.000$ MHz > 35 dB |
| | $f_0 \pm 9.00$ MHz > 65 dB | $f_0 \pm 9.00$ MHz > 60 dB | $f_0 \pm 12.000$ > 65 dB |
| Wideband (WB) | < 0.12 dB | < 0.12 dB | < 0.12 dB |
| Isolation | | | |
| NB to WB | > 32 dB | | |
| WB to NB | > 50 dB | | |
| Power | | | |
| NB Input | ≤ 5.0 kw Avg | | |
| WB Input | ≤ 15.0 kw Avg | | |
| Output | ≤ 20.0 kw Avg | | |
| Connectors | | | |
| Inputs | 1-5/8" EIA; 3-1/8" EIA (*other size available) | | |
| Output | 3-1/8" EIA (*other sizes available) | | |
| Dimensions | 40" x 16" x 60" (1015mm x 405mm x 1525mm) | | |
| Weight | ≈ 300 lbs (135 kgs) | | |