

MMDS Directional Channel Filter/Combiner

Product Features

- *Semi-adjacent/adjacent channel applications*
- *Analog/Digital ready MMDS Systems*
- *High channel isolation*
- *Low pass band insertion loss*
- *Easy installation*



Description and Application

UBS offers a line of directional, semi-adjacent and adjacent channel filter/combiners for both analog and digital MMDS system applications. The analog version consists of three resonator filter sections, while the digital ready version incorporates four.

The channel filter/combiner is used to cascade the output of several transmitters into a common waveguide (transmission line) while providing protection to the transmitters against transmission line mismatches.

The filters can be used to add transmitters to an existing network or can be configured to combine up to 16 arbitrary non-adjacent channels or up to 31 adjacent channels.

The filters are constructed from lightweight aluminum for easy installation and come complete with the necessary hardware and test data.

Product Specifications

Standard Frequency	2500 MHz - 2686 MHz (2 GHz - 4 GHz available)
Insertion Loss (transmitter-to-antenna port)	< 0.8 dB (semi-adjacent analog combiner) < 1.0 dB (semi-adjacent digital ready combiner) < 1.5 dB video carrier (adjacent combiner) < 2.0 dB audio carrier (adjacent combiner)
VSWR	< 1.25:1 (transmitter port) < 1.10:1 (waveguide input port)
Channel Isolation	30 dB (semi-adjacent analog combiner) 45 dB (semi-adjacent digital ready combiner)
Channel Formats	NTSC, PAL, SECAM
Connectors	N-type Female (transmitter port) CPR340 (waveguide port)
Operating Temperature	10 °C to 32 °C

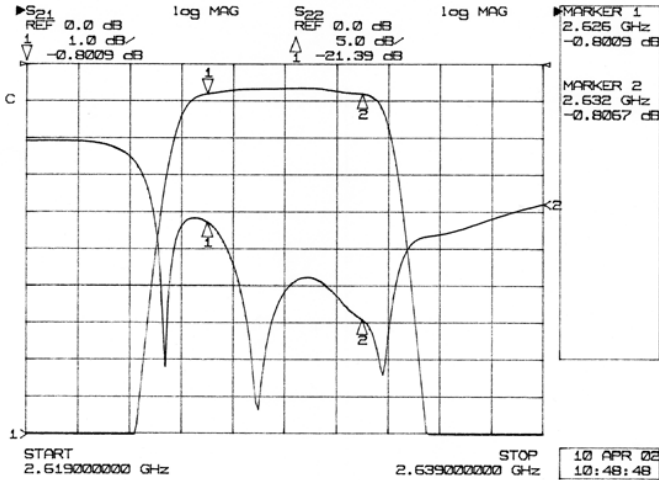
**Additional Loss due to transit through multiple channels is approximately 0.025 dB per channel combiner.

(specifications are subject to change without notice)

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Typical Frequency Response



Channel Frequency Table

SUFFIX	CHANNEL FREQUENCY	
	F _l	F _h
A	2300	2308
B	2308	2316
C	2316	2324
D	2324	2332
E	2332	2340
F	2340	2348
G	2348	2356
H	2356	2364
I	2364	2372
J	2372	2380
K	2380	2388
L	2388	2396
M	2396	2404
N	2404	2412
O	2412	2420
P	2420	2428
Q	2428	2436
R	2436	2444
S	2444	2452
T	2452	2460
U	2460	2468
V	2468	2476
W	2476	2484
X	2484	2492
Y	2492	2500