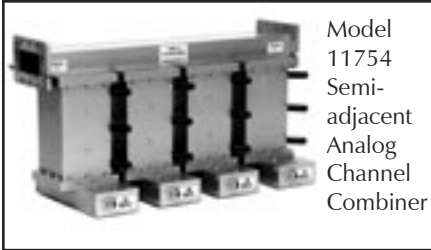


# "Q" Series Digital and Analog Copper Combiners



Model 11754 Semi-adjacent Analog Channel Combiner



Model 11954 Adjacent Analog Channel Combiner



Model 14754SA Semi-adjacent Digital Channel Combiner

This series of combiners offers the user the benefits of low loss copper performance without the usual expense associated with copper construction. The "Q" series offers the same flexibility as the aluminum series in meeting your specific headend requirements. A choice of bi-directional inputs allows the combiner output to be directed left or right. A variety of copper adapters and mounting configurations permit easy installation and cable access.

### General Specifications For a 4 Channel Combiner:\*

Model	11754	11954	14754
Frequency Range: .....	2.3-2.9 GHz**	2.5-2.9 GHz**	2.5-2.9 GHz**
Channel Bandwidth: .....	6, 7 or 8 MHz	6, 7 or 8 MHz	6, 7 or 8 MHz
Loss:			
Video to Audio Carrier:....	0.9 dB max.	3.0 dB max.	NA
	0.75 dB typ.	2.75 dB typ.	NA
Full Bandwidth:.....	NA	NA	1.0 dB max.
VSWR:			
Transmitter Input: .....	1.2:1 max.	1.29:1 max.	1.2:1 max.
Wideband Input: .....	1.2:1 typical	1.2:1 typical	1.2:1 typical
Chroma Delay Differential:			
Video + 1 MHz to Color: ..	10 ns max.	NA	NA
	5 ns typical	15 ns typical	NA
Video + 0.2 MHz to Color:	35 ns max.	NA	NA
	25 ns typical	80 ns typical	NA
Group Delay Variation			
(Fo+/-2.7 MHz): .....	NA	NA	40-60 ns typical
Mutual Isolation:			
	30 dB min.	30dB min.	25 dB min.
	35 dB typical	35 dB typical	30 dB typical
Directivity:.....	20 dB typical	20 dB typical	20 dB typical
Power Rating per Channel:	100 watts	100 watts	100 watts
Connectors:			
Transmitter Input: .....	N Female	N Female	N Female
Mainline: .....	CPR 340	CPR-340	CPR-340
Temperature Stability .....	43 KHz/°C		

These units can be ordered with a manual or auto-shutter option, which allows the use of a frequency agile transmitter at the broadband input of the combiner.

Custom configurations can be defined for specific installations. An integrated video/audio diplexer can be designed into the standard combiner to reduce loss and save limited headend or rack space. Design engineers are available to help in developing these custom configurations.

\*Other channel configurations available upon request.

\*\*For other frequency bands, consult the factory directly.