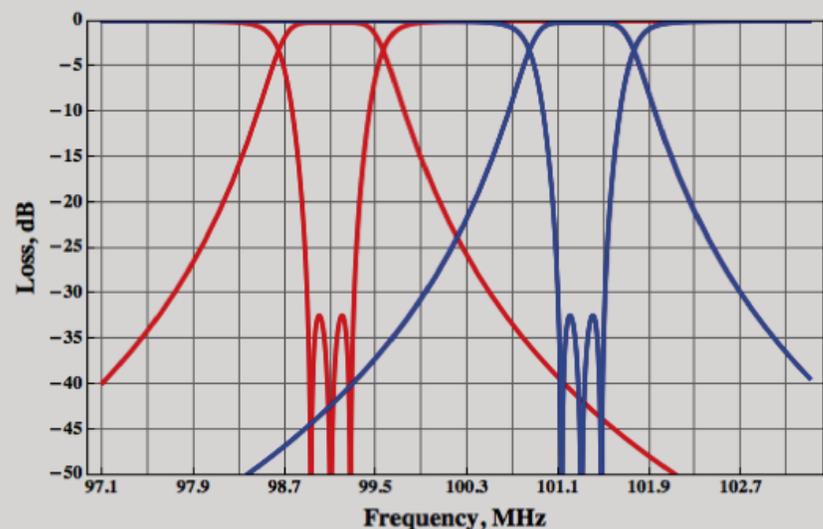




Dielectric introduces a new line of Common Case Channel Combiners that efficiently combine two FM stations (-10 dB IBOC compatible) to one antenna. Combiner cost and efficiency is improved by eliminating coaxial Tee junction and associated line/elbows complex. Combiner size is reduced by eliminating coaxial Tee junction making it particularly attractive where space is limited. Dielectric's common case channel combiner module is fieldtunable across the FM band in the event of the need for channel change.

Key Features:

- Tee junction and delay lines eliminated, resulting in lower initial cost
- Higher efficiency, lower operating cost
- IBOC compatible
- Field-tunable 3 or 4 pole designs
- Cross coupling provided for tighter isolation and efficiency requirements
- Compact for space-limited sites
- 3 kW max output



Trusted for Decades. Ready for Tomorrow.

PARAMETER	SPEC	
Port Size	7/8 or 1 5/8" EIA, male	
Maximum Output Power	3.0 kW, Analog + Digital	
Frequency Range	88-108 MHz	
Standard	FM/IBOC	
Filter Sections	3	4
Channel Spacing* (40 dB Isolation)	2.2 MHz min	1.2 MHz
Insertion Loss (fo)	.38 dB	.68 dB
Insertion Loss (+/- 200 kHz)	.45 dB max	.85 dB max
Rejection* fo +/- 800 kHz fo +/- 1.60 kHz	N/A 28 dB	30 dB 48 dB
Delay Variation (+/- 200 kHz)	100 ns max	350 ns max
Input Return Loss	28 dB	28dB
Weight	110 lbs (50 kg)	145 lbs (66 kg)
Length Width Height	32 13 40 in 81 33 102 cm	39 13 40 in 99 33 102 cm
Ambient Temp Range	10° C to 40° C	
Material	Aluminum/Copper	
Cooling	Free Convection	
Temperature Stability	< 3 kHz / C	
Thermal Compensation	Compensated Resonator	
Output Power Rating at Altitude	2.8 kW at 1000 ft 2.7 kW at 2000 ft 2.1 kW at 5000 ft	
Model Number	DFC-J2-FT3T6I	DFC-J2-FT4T6I

Consult factory for greater rejection and reduced channel spacing