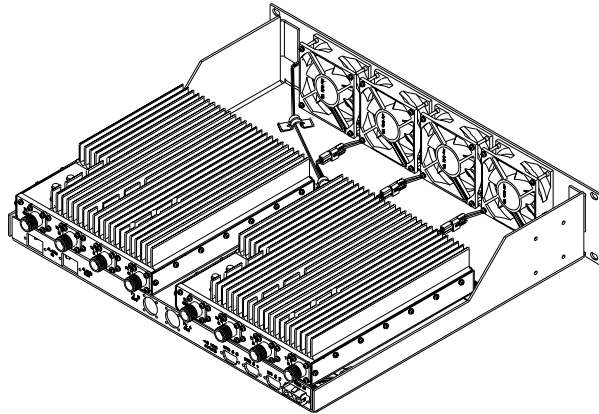
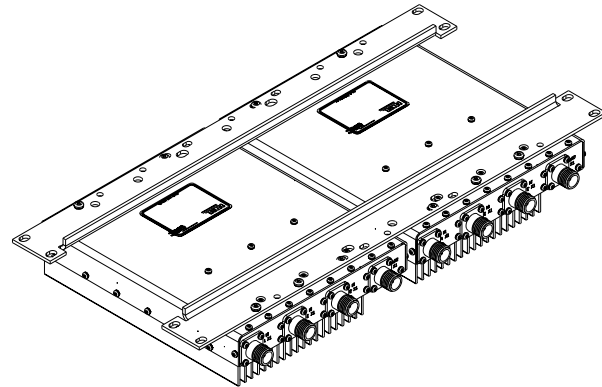


DB4398-311 / DB4398-312

3-into-1 Trunking Hybrid Combiners
851-869 MHz



DB4398-312NN



DB4398-312BN

Dual-junction isolators feed a Wilkinson combiner followed by a harmonic filter to provide an integrated, single or dual, 3-port hybrid combiner. For in-rack mounting, fans provide redundant, forced-air cooling from -48VDC or +12VDC. For maximum space savings, a bracket-mounted version is available for the rear of the cabinet using convection cooling.

ELECTRICAL DATA			MECHANICAL DATA	
Model Number(s) (Tray w/Fans)	DB4398-311NN	(Single, -48 VDC)	Mounting	19" Rack, Tray (Horiz.) or Bracket (Vert.) Mount
	DB4398-312NN	(Dual, -48 VDC)	Temp. Range	-30° to +50° C
Model Number(s) (Bracket-Mounted)	DB4398-311PN	(Single, +12 VDC)		
	DB4398-312PN	(Dual, +12 VDC)	Connectors	RF: Type N-Female DC: 4 Pin Mate-N-Lok
Application	Single or dual 3-port hybrid combiner for 800 MHz Trunking Transmitters.		Finish	Tray: Black powder coat Modules: Clear Alodine
Frequency Range	851-869 MHz		Dimensions (W x H x D)	Rack Mount Unit: 19" x 3.5" x 16.5" (48 x 4.5 x 42 cm) Bracket Mount Unit: 19" x 2.7" x 10.3" (48 x 6.9 x 26 cm)
Max. Input Power	70 Watts (avg) / 350 Watts (peak)			
Insertion Loss (Max)	5.9 dB		Weight	DB4398-311PN/NN: 10.2 lbs. (4.6 kg) DB4398-312PN/NN: 15.7 lbs. (7.1 kg) DB4398-311BN/NN: 5.7 lbs. (2.6 kg) DB4398-312BN/NN: 11.2 lbs. (5.1 kg)
Isolation (Tx to Tx)	65 dB			
Isolation (Ant to Tx)	55 dB			
Input Return Loss	19 dB			
3rd Order IM (Max)	-85 dBc @ 2x 70 Watts input			
2nd Harmonic Attn. (Max)	55 dB			
2nd Harmonic Output (Max)	-70 dBc @ 70 Watts input			
DC Input (Max)	-48 VDC @ 0.4 Amps +12 VDC @ 1.2 Amps			
			Specifications are for reference only. 099219-000-A 8/99	



DECIBEL PRODUCTS
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COMBINER