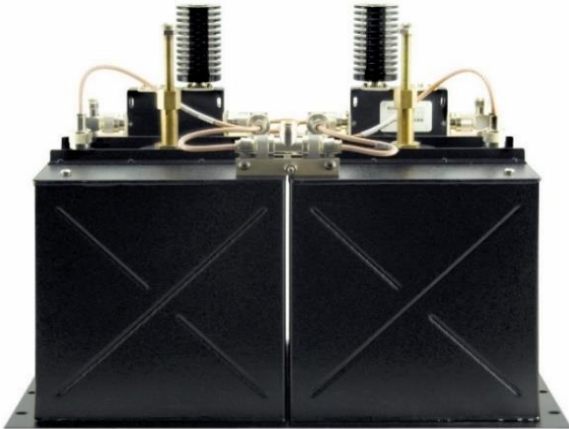


DB4368-Series UHF Combiner (350-512 MHz)

2-10 Channel High Performance Combiner

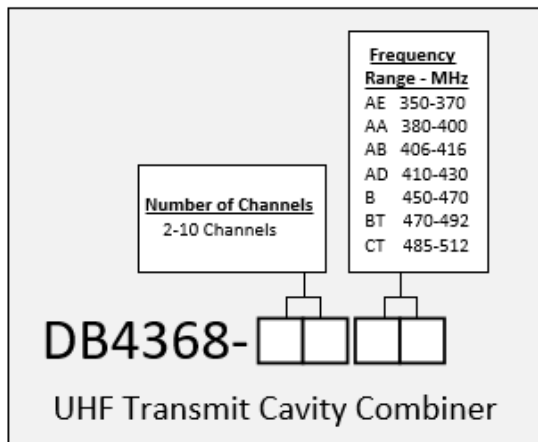


Top View of 2-Channel DB4368 Combiner showing 19" EIA mounting Panel and 12.5" Depth

Features and Benefits

- ❖ Eight-inch solid copper cavities enable high performance in compact package including close 100 kHz channel spacing with low insertion loss.
- ❖ Down to 50 kHz TX frequency spacing with optional isolator loads.
- ❖ Dual junction transmitter isolators provide high TX-TX isolation.
- ❖ Combiner is designed for easy field tuning and expansion.

Ordering Information



Note: Order separately one 100W load kit DB4368LDKT for each channel spaced 50-100 kHz from other channels.

Specifications

Electrical Specifications	
Frequency Range	See Ordering Information
TX Frequency Separation	100 kHz Minimum 50 kHz Min with DB4368LDKT
Number of TX Channels	2-10
Channel Power Maximum	125 W
Isolation	
TX to TX	>65 dB
ANT to TX	>50 dB
Isolation at Transmit Frequencies	>17 dB at 1.5 MHz Offset >35 dB at 5 MHz Offset
Insertion Loss	See Insertion Loss Table
Return Loss	>19 dB
Mechanical Specifications	
Construction/Finish	8" Copper Cavities and Rack Mount Panel Black finish
Input Connectors	TX Input N- Female Combiner
Output Connector	Standard N-Female. For DIN order Also DB4368PIM Kit
Mounting	EIA 19-inch rack
Depth	Standard DB4368: 17.6" With DB4368LDKT: 20.6"
Temperature Range	-30° C to +60° C

Height and Weight

No. of Channels	Height RU	Height Inches	Net Weight	Ship Weight
2	6	10.5	38 Lbs	48 Lbs
3	12	21.0	57 Lbs	67 Lbs
4	12	21.0	76 Lbs	86 Lbs
5	18	31.5	95 Lbs	105 Lbs
6	18	31.5	114 Lbs	124 Lbs
7	24	42.0	133 Lbs	143 Lbs
8	24	42.0	152 Lbs	162 Lbs
9	30	52.5	171 Lbs	181 Lbs
10	30	52.5	190 Lbs	200 Lbs

Insertion Loss

No. of Channels	Frequency Separation -- KHz					
	50-100	100-150	150-200	200-300	300-400	>400
2	7.7	4.7	3.4	2.7	2.3	2.3
3	7.9	4.9	3.6	2.9	2.4	2.3
4	8.1	5.1	3.8	3.1	2.6	2.3
5	8.3	5.3	4.0	3.3	2.8	2.5
6	8.5	5.5	4.2	3.5	3.0	2.7
7	8.7	5.7	4.4	3.7	3.2	2.9
8	8.9	5.9	4.6	3.9	3.4	3.1
9	9.2	6.2	4.9	4.2	3.7	3.4
10	9.6	6.6	5.3	4.6	4.1	3.8

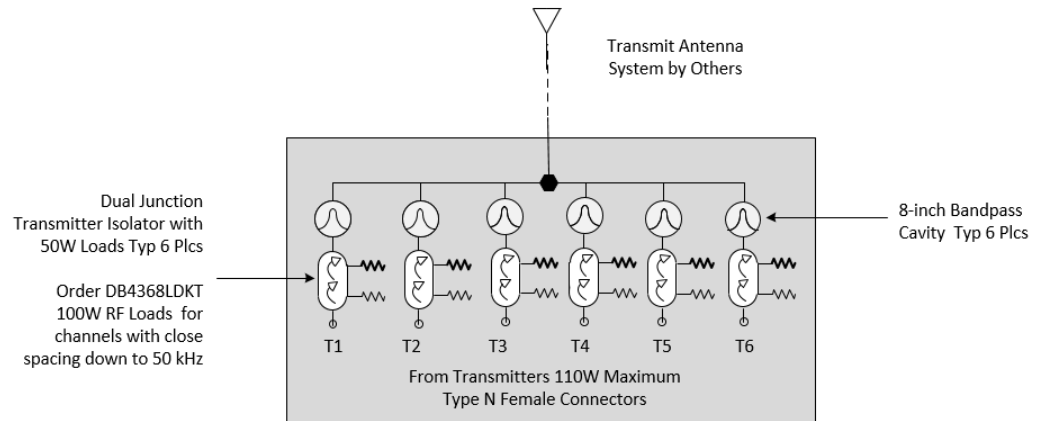
With DB4368LDKT on channels closer than 100 KHz

DB4368-Series UHF Combiner (350-512 MHz)

2-10 Channel High Performance Combiner



Typical Application (6-Channel Shown)



Available Accessories

DIN Connector/PIM Kit, Channel Expansion Kits, and 100W Load kits are available for factory or field installation . Contact tech@dbSpectra.com for design assistance.

DB4368PIM DIN Connector and PIM Kit

The factory-installed combiner PIM Kit is a special DIN output junction that seals the cavity jumper “mate once” N-type connectors and converts the combiner output to a 7/16 DIN female connector that can be safely mated for site antenna connections by field installation personnel. This kit provides protection from Intermodulation mixing in the combiner.



DB4368-WOB-x Combiner Expansion Channel Kit

[x= Frequency Band from Ordering Information table above]

Order to add one channel to a combiner that has one unpopulated cavity position. Kit includes cavity (factory tuned), dual stage isolator, mounting hardware, interconnect cable, and instructions.

DB4368-WB-x Combiner Expansion Channel Kit

[x= Frequency Band from Ordering Information table above]

Order to add one channel and a 6R front mounting panel to a combiner that has no cavity positions un-populated. Kit includes cavity (factory tuned), dual stage isolator, mounting hardware, interconnect cable, and instructions.

DB4368-2WB-x Combiner Expansion 2-Channel Kit

[x= Frequency Band from Ordering Information table above]

Order to add two channels and a 6R front mounting panel to a combiner that has no cavity positions un-populated. Kit includes cavities (factory tuned), dual stage isolators, mounting hardware, interconnect cables, and instructions.

DB4368LDKT 100 Watt Load Kit

Order to replace or upgrade existing isolator load to accommodate transmit frequency spacing 50-100 kHz. If ordered with original combiner purchase, dbSpectra will install on combiner during staging and tuning process.

