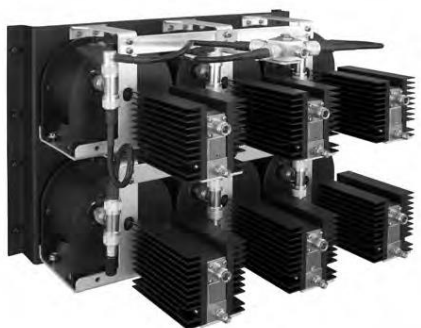


DSCC-Series Transmit Cavity Combiner (763-940 MHz)

Compact Ceramic Resonator Technology, 2 to 12 Channels

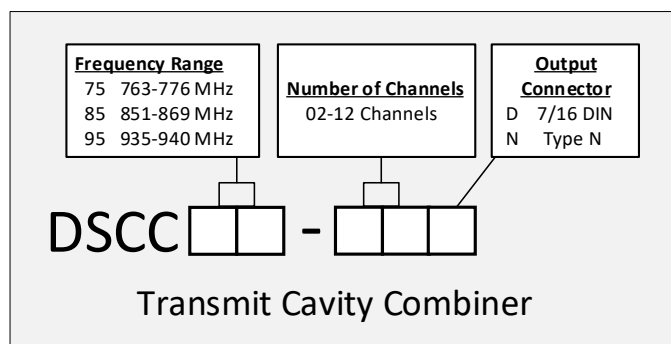


Rear view of DSCC-Series Combiner with Dual Isolators
(6-Channel Model DSCC85-06D Shown)

Features and Benefits of Combiner

- ❖ Five-inch cavities with special ceramic resonators enable close channel spacing, low insertion loss, and high performance in a compact package.
- ❖ Dual junction transmitter isolators provide high TX-TX isolation.
- ❖ Designed for easy field tuning and expansion.

Ordering Information



Specifications

Electrical Specifications	
Frequency Range	See Ordering Information for models
TX Frequency Separation	150 kHz Minimum
Number of TX Channels	2-12
Channel Power Maximum	110 W
Isolation TX to TX ANT to TX	>65 dB >50 dB
Isolation at Transmit Frequencies	>45 dB at 30 MHz Offset
Insertion Loss	See Insertion Loss Table
Return Loss	>19 dB
Mechanical Specifications	
Construction/Finish	5" Cavities with Ceramic Resonator, Chem Film and Paint Black
Mounting Brackets	AL Clear Chem Film
Mounting Chassis Front Panel	AL panel, black powdercoat
Input Connectors	N- Female
Mounting	EIA 19-inch rack
Temperature Range	-10° C to +60° C **
Dimensions and Weight	
Width	19.0 in
Depth	12.5 in
Height	See Height & Weight Table
Weight / Shipping Weight	See Height & Weight Table

** For operation below 0 degrees C, must tune under power

Height and Weight Table

No. of Channels	Height inches (&)	Net Weight	Shipping Weight
2	7.0" (4RU)	18.0	28.0
3		25.0	35.0
4		36.0	46.0
5	14.0" (8RU)	43.0	53.0
6		50.0	70.0
7		61.0	81.0
8	21.0" (12RU)	68.0	88.0
9		75.0	95.0
10		89.0	109.0
11	28" (16RU)	96.0	116.0
12		103.0	123.0

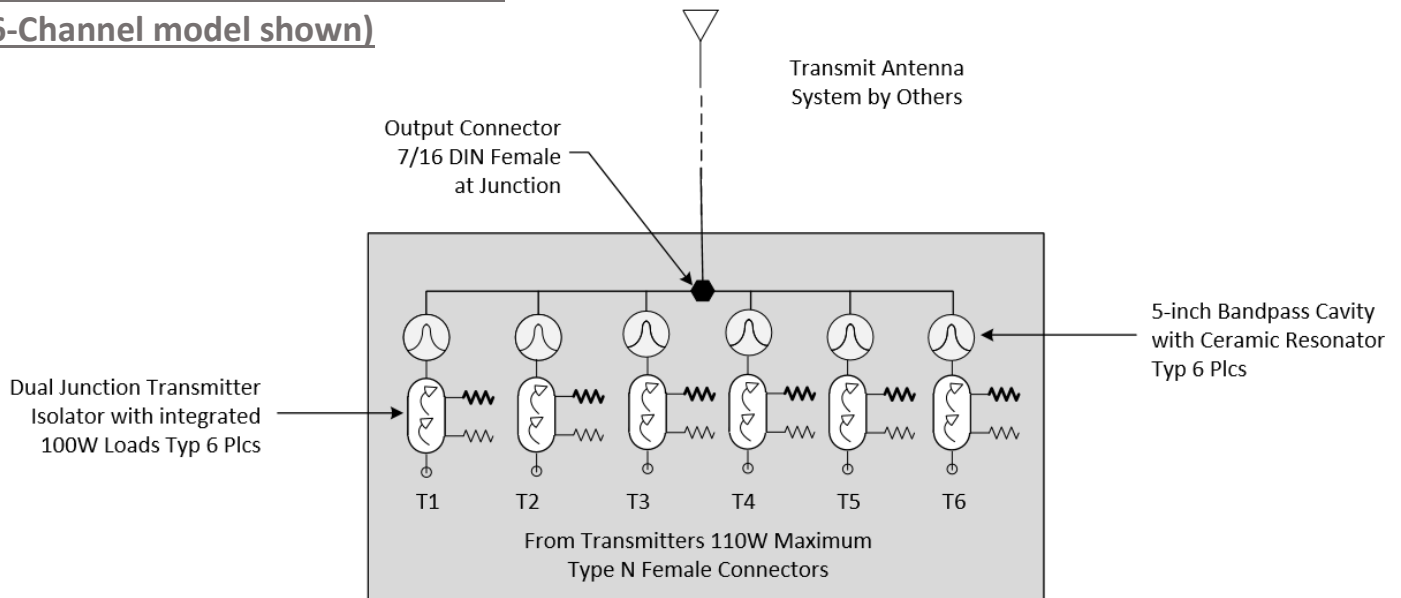
Insertion Loss Table

No. of Channels	Frequency Separation -- KHz		
	150-250	250-500	>500
2	3.6	3.1	2.9
3	4.0	3.2	2.9
4	4.3	3.4	3.0
5	4.6	3.4	3.1
6	4.7	3.6	3.1
7	4.7	3.6	3.1
8	5.0	3.7	3.2
9	5.0	3.8	3.2
10	5.1	3.8	3.3
11	5.2	3.9	3.4
12	5.4	4.1	3.5

DSCC-Series Transmit Cavity Combiner (763-940 MHz) Compact Ceramic Resonator Technology, 2 to 12 Channels



Schematic and Typical Application (6-Channel model shown)



Combiner Channel Expansion Kits

DSCC-series combiners can be modified in the field to add channels if necessary but please note that DbSpectra recommends expansion to a maximum of twelve RF channels. Two types of expansion kits are available for field installation:

Note: replace "xx" in part numbers below with "75", "85", or "95" to indicate band for 700 MHz, 800 MHz, or 900 MHz.

DSCCxx-01WOB

Single channel cavity, isolator, RF jumpers, and mounting hardware without chassis or mounting brackets. This kit will fit to existing DSCC combiner that has one or more unpopulated cavity position(s).



DSCCxx-01WB One Channel

DSCCxx-02WB Two Channel

DSCCxx-03WB Three Channel

One, Two, or three-channel cavity and isolator assembly with 4RU chassis, mounting brackets, and mounting hardware.



(Rear view of Two Channel DSCCxx-02WB)