



Model	Band	Tx (MHz)	Rx (MHz)	Return Loss @ Tx/Rx (dB)	Insertion Loss Typical Tx/Rx-Tx Out (dB)	Insertion Loss Typical Rx in to Tx/Rx (dB)	Isolation Tx out-Rx in (dB)
DCC101	700 LTE Lower B/C	734-746	704-716	>15.6	3 + A + Var	1.5 + Var	>70
DCC102	700 LTE Upper C	746-757	776-787	>15.6	3 + A + Var	1.5 + Var	>70
DCC103	850 MHz Cellular	869-894	824-849	>17	3 + A + Var	1.5 + Var	>70
DCC104	1900 MHz PCS	1930-1990	1850-1910	>15.6	4.5 + A + Var	1.5 + Var	>70
DCC105	1900 MHz PCS + G	1930-1995	1850-1915	>14	4.5 + A + Var	1.5 + Var	>70
DCC106	2100 MHz AWS	2110-2155	1710-1755	>14	4.5 + A + Var	1.5 + Var	>70
DCC107	700 LTE A/B/C	728-768	698-716, 776-798	>15.6	3 + A + Var	1.5 + Var	>70
DCC108	800 MHz SMR/iDen	851-869	806-824	>15.6	3 + A + Var	1.5 + Var	>70

DCC100 Series Selection

Model numbers correspond to specific frequency bands.

Transmit Power Levels up to 60 Watts Average

Insertion Loss Calculation:

Transmit (Tx) = Constant + A + Var;

Receive (Rx) = Constant + Var

A = fixed attenuator value; (10, 15, 20, 30 dB)

Var = 0-30 dB, 1 dB step, variable attenuator

Monitor port increases insertion loss: 0.5 dB for frequency <1900 MHz
0.7 dB for frequency >1900 MHz

Tray can contain 1 or 2 channels, 2 for MIMO capability or Dual SISO.

Power/Input	60 W, Avg. Max.
Tx Monitor	Tx out - 20 dB
Rx Monitor	Rx in - Var_Rx - 20 dB
PIM	<- 153 dBc, measured in Rx Block using two + 43 dm tones in corresponding Tx Block
Impedance	50 ohms
Environment	0 - 55 degrees C, IP64
Size	2RU, 19" Rack, 17.2" deep

DCC - DAS Carrier Conditioner Part Number Convention

Dash Number Designation

Model	Channels	Input Connector	Output Connector	Fixed Atten. (dB)	Monitors	Bands/Application
DCC101-						700MHz LTE Lower B/C LTE
DCC102-						700MHz Upper C LTE
DCC103-						850 MHz Cellular
DCC104-						1900 MHz PCS
DCC105-						1900MHz-G
DCC106-						2100 MHz AWS
DCC107-						700 MHz Lower and Upper A/B/C
DCC108-						800 MHz SMR, iDen

Channels	1: Single	2: Dual
Input Connector	D: 7-16 DIN	N: N-Type
Output Connector	N: N-Type	S: SMA
Fixed Attenuator	10: 10 dB	
	15: 15 dB	
	20: 20 dB	
	30: 30 dB	
Monitors	M: Monitor	"(blank)": No Monitor
Example	DCC102- 2DN20M DAS Carrier Conditioner, 700 MHz Upper C LTE	

