

# Deewave Coaxial Broadband Circulators 2 – 7 GHz

DCC200400B · DCC300600B · DCC400700B · Product Datasheet



Deewave Coaxial Broadband Circulators are passive 3-port devices that route RF signals directionally from Port 1 to Port 2, from Port 2 to Port 3 and from Port 3 back to Port 1. The DCC-series combines broadband frequency coverage with low insertion loss, high isolation and compact SMA Female housing. The three models presented here cover the mid-microwave bands from 2 to 7 GHz and address wireless infrastructure, radar, satellite communication, and test & measurement applications.

## TECHNICAL SPECIFICATIONS

	DCC200400B	DCC300600B	DCC400700B
<b>Frequency Range</b>	2 – 4 GHz	3 – 6 GHz	4 – 7 GHz
<b>Insertion Loss (max)</b>	0.6 dB	0.6 dB	0.6 dB
<b>Isolation (min)</b>	17 dB	18 dB	18 dB
<b>VSWR (max)</b>	1.35	1.40	1.35
<b>Forward Power</b>	100 W	100 W	50 W
<b>Connectors</b>	3x SMA Female	3x SMA Female	3x SMA Female
<b>Dimensions</b>	34 x 32 x 9.75 mm	28 x 25 x 7.85 mm	22.5 x 21 x 8.65 mm
<b>Operating Temp.</b>	-10 to +55 °C	-10 to +55 °C	-10 to +55 °C

## APPLICATIONS

<p><b>Wireless Infrastructure</b> LTE, 5G and WiFi base stations, repeaters and amplifier protection across 2 to 7 GHz bands</p>	<p><b>Satellite Communication</b> S-, C- and lower X-band uplink stages, TT&amp;C and earth station Tx/Rx separation</p>	<p><b>Radar Systems</b> Transmitter / receiver isolation and duplexer function in pulsed and CW radar architectures</p>
<p><b>Test &amp; Measurement</b> Source protection against reflected power, load decoupling and Device-under-Test isolation</p>	<p><b>Defense &amp; Aerospace</b> Compact SMA housing for portable, airborne and embedded RF subsystems</p>	<p><b>Amplifier Protection</b> Reflection management in PA chains, redirecting mismatch power to absorptive load</p>