

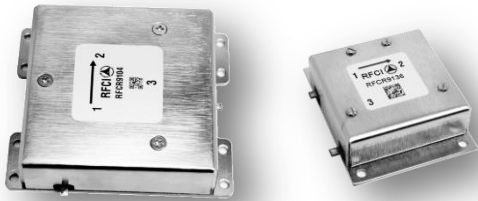


DIGITAL TV AND UHF NARROW BAND

MINIATURE FLANGE MOUNT DROP-IN CIRCULATORS & ISOLATORS

PRODUCT DESCRIPTION

RFCI Drop-in Miniature lumped element Circulators and Isolators designed for Digital TV and VHF applications in high performance linear power amplifiers.



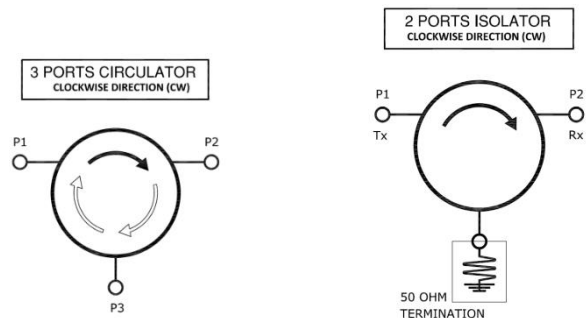
- ❖ Products available with alternative configuration such as attenuators, high power termination and reverse rotation direction.
- ❖ Special Tab is offset available.
- ❖ S-parameters are available upon request.



KEY FEATURES

- Miniature drop-in package size.
- Robust Construction for High Reliability performance
- RoHS compliant
- Low typical Insertion loss
- Magnetically Shielded.

FUNCTION DIAGRAM



CIRCULATORS OUTLINE DRAWING

Figure DC-01 (76mm Package Outline)

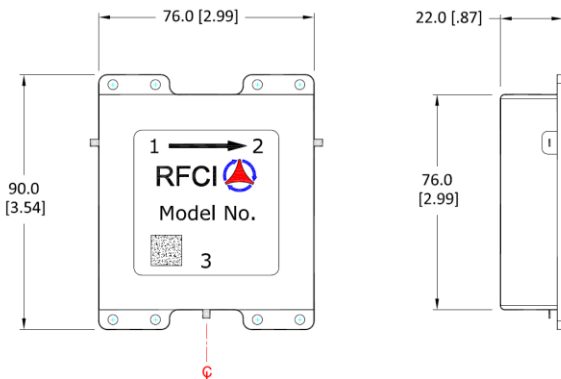
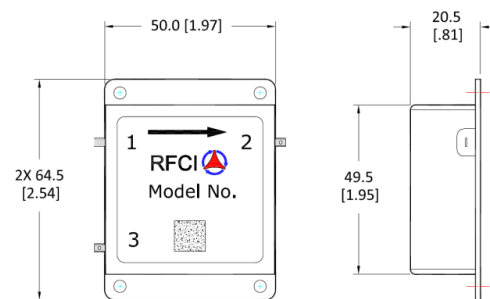


Figure DC-02 (50mm Package Outline)



UNLESS OTHERWISE SPECIFIED			
ALL DIMENSIONS ARE IN MILLIMETERS (INCHES):			
TOLERANCES ARE:			
1 PLACE DECIMAL	±2 [±0.01]	ANGULAR:	±1.0°
2 PLACE DECIMAL	±.10 [±.004]	SURFACE ROUGHNESS	16/

Flange Mount Drop-in CIRCULATORS

Frequency Range (MHz)		Insertion Loss (dB)	Isolation (dB)	Return Loss (dB)	Fwd. PWR CW (W)	Rev PWR CW (W)	Operating Temperature (°C)	Package Outline	RFCI Part No.
Low	High	Room/OT	Room/OT	Room/OT	Max.	Max.			
49	57	0.8/1.0	19/17	19/17	200	100	-0 to +60°C	DC-01	RFCR9112
54	60	0.8/1.0	19/17	19/17	200	100	-0 to +60°C	DC-01	RFCR9115
60	66	0.8/1.0	19/17	19/17	200	100	-0 to +60°C	DC-01	RFCR9118
66	72	0.8/1.0	19/17	19/17	200	100	-0 to +60°C	DC-01	RFCR9121
76	82	0.8/1.0	19/17	19/17	200	100	-0 to +60°C	DC-01	RFCR9124
82	88	0.8/1.0	19/17	19/17	200	100	-0 to +60°C	DC-01	RFCR9127
88	103	0.8/1.0	19/17	19/17	200	100	-0 to +60°C	DC-01	RFCR9130
118	144	0.8/1.0	18/17	18/17	200	100	-0 to +60°C	DC-01	RFCR9102
132	174	0.8/1.0	16/15	16/15	100	20	-30 to +80°C	DC-02	RFCR9134
132	154	0.5/0.8	18/15	18/15	150	100	-30 to +80°C	DC-02	RFCR9135
150	174	0.5/0.8	18/15	18/15	150	100	-30 to +80°C	DC-02	RFCR9136

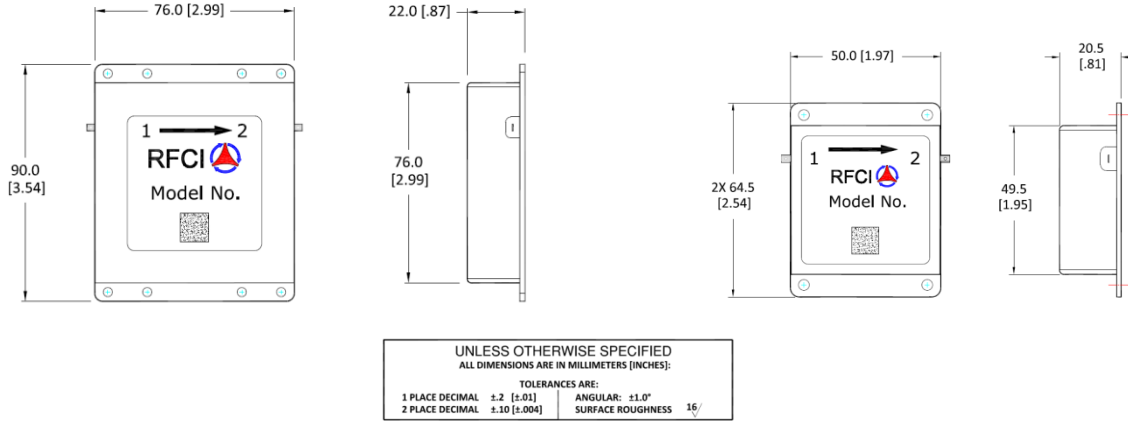
Standard Part Number is Clockwise (CW) Rotation. Add letter “R” at the end to Part number for a Counter Clockwise (CCW) Rotation

- S-Parameters to be measured by connecting Port 1 and Port 2 to VNA and Port 3 to Load with load return loss 30dB or higher.
- See RFCI website www.rf-ci.com for complete part datasheet.

ISOLATORS OUTLINE DRAWING

Figure DI-01 (76mm Package Outline)

Figure DI-02 (50mm Package Outline)



Flange Mount Drop-in ISOLATORS

Frequency Range (MHz)		Insertion Loss (dB)	Isolation (dB)	Return Loss (dB)	Fwd. PWR CW (W)	Rev PWR CW (W)	Operating Temperature (°C)	Package Outline	RFIC Part No. Datasheet
Low	High	Room/OT	Room/OT	Room/OT	Max.	Max.			
49	57	0.8/1.0	19/17	19/17	200	20	-0 to +60°C	DI-01	RFSL9108
54	60	0.8/1.0	19/17	19/17	200	20	-0 to +60°C	DI-01	RFSL9109
60	66	0.8/1.0	19/17	19/17	200	20	-0 to +60°C	DI-01	RFSL9110
66	72	0.8/1.0	19/17	19/17	200	20	-0 to +60°C	DI-01	RFSL9111
76	82	0.8/1.0	19/17	19/17	200	20	-0 to +60°C	DI-01	RFSL9112
82	88	0.8/1.0	19/17	19/17	200	20	-0 to +60°C	DI-01	RFSL9113
88	103	0.8/1.0	19/17	19/17	200	20	-0 to +60°C	DI-01	RFSL9114
118	144	0.8/1.0	18/17	18/17	200	20	-0 to +60°C	DI-01	RFSL9115
132	174	0.8/1.0	16/15	16/15	100	20	-30 to +80°C	DI-02	RFSL9116
132	154	0.5/0.8	18/15	18/15	150	20	-30 to +80°C	DI-02	RFSL9117
150	174	0.5/0.8	18/15	18/15	150	20	-30 to +80°C	DI-02	RFSL9118

Standard Part Number is Clockwise (CW) Rotation. Add letter “R” at the end to Part number for a Counter Clockwise (CCW) Rotation

Reflected power from 20 Watts to 100 Watts pending on Model Number (contact factory)