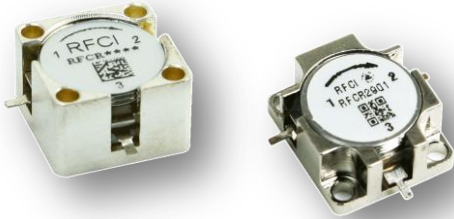


S-BANDS MINIATURE

FLANGE MOUNT DROP-IN CIRCULATOR

PRODUCT DESCRIPTION

RFCI Miniature Drop-in Circulators designed for S-Bands Radar applications in high performance linear power amplifiers and utilize the latest technology in miniaturization to assure a fit into the most compact assemblies.



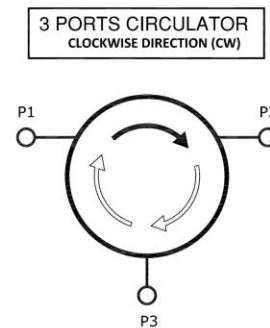
- ❖ Products available with alternative configuration such as attenuators, high power termination and reverse rotation direction.
- ❖ Special Tab is offset available.
- ❖ S-parameters are available upon request.



KEY FEATURES

- Robust Construction for High Reliability performance
- RoHS compliant
- Low typical Insertion loss, High Isolation
- Magnetically Shielded.

FUNCTION DIAGRAM



CIRCULATOR OUTLINE DRAWING

Figure DC-11 (12.7mm C 'Bore Package Outline)

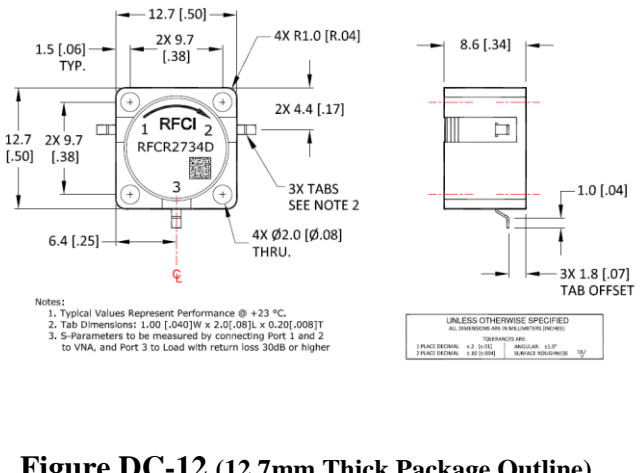
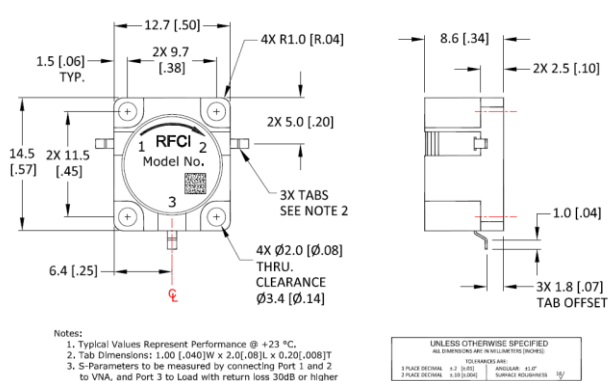


Figure DC-12 (12.7mm Thick Package Outline)

Circulator 12.7mm Package-C' Bore mounting Holes

Frequency Range (MHz)		Insertion Loss (dB)	Isolation (dB)	Return Loss (dB)	Fwd. PWR P/CW (W)	Rev PWR CW (W)	Operating Temperature (°C)	Package Outline	RFCI Part Number
Low	High	Room/OT	Room/OT	Room/OT	Max.	Max.	(°C)		
2700	2900	0.35/0.40	21/19	21/19	500/50	50	-40 to +85°C	DC-11	RFCR2895
2900	3100	0.35/0.40	21/19	21/19	500/50	50	-40 to +85°C	DC-11	RFCR2896
3100	3300	0.35/0.40	21/19	21/19	500/50	50	-40 to +85°C	DC-11	RFCR2897
3300	3400	0.25/0.35	22/20	22/20	500/50	50	-40 to +85°C	DC-11	RFCR2869
3400	3600	0.25/0.35	22/20	22/20	500/50	50	-40 to +85°C	DC-11	RFCR2892
3600	3800	0.25/0.35	23/20	23/20	500/50	50	-40 to +85°C	DC-11	RFCR2871

Circulator 12.7mm Package

Frequency Range (MHz)		Insertion Loss (dB)	Isolation (dB)	Return Loss (dB)	Fwd. PWR P/CW (W)	Rev PWR CW (W)	Operating Temperature (°C)	Package Outline	RFCI Part Number
Low	High	Room/OT	Room/OT	Room/OT	Max.	Max.	(°C)		
2700	2900	0.35/0.40	21/19	21/19	500/50	50	-40 to +85°C	DC-12	RFCR2895D
2900	3100	0.35/0.40	21/19	21/19	500/50	50	-40 to +85°C	DC-12	RFCR2896D
3100	3300	0.35/0.40	21/19	21/19	500/50	50	-40 to +85°C	DC-12	RFCR2897D
3300	3400	0.25/0.35	22/20	22/20	500/50	50	-40 to +85°C	DC-12	RFCR2869D
3400	3600	0.25/0.35	22/20	22/20	500/50	50	-40 to +85°C	DC-12	RFCR2892D
3600	3800	0.25/0.35	23/20	23/20	500/50	50	-40 to +85°C	DC-12	RFCR2871D

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.