

COMMUNICATION NARROW BAND

SURFACE MOUNT GULLWING FLANGE MOUNT CIRCULATORS

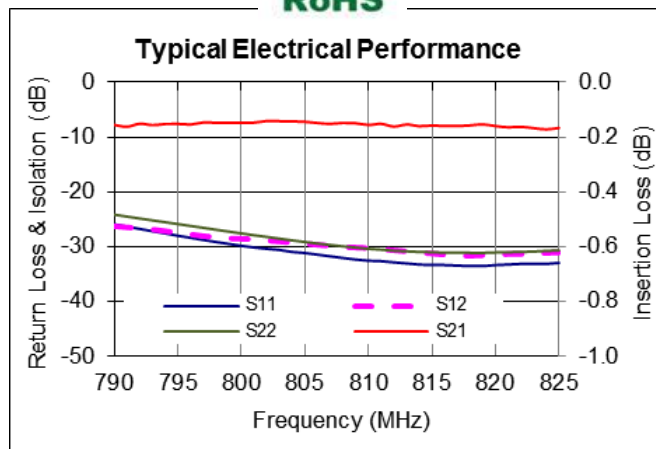
PRODUCT DESCRIPTION

RFCI Gullwing (GW) SMD Circulators designed to meet the demands of commercial communication systems for applications in high performance linear power amplifiers. Feature a robust construction for reliability performance at low cost and high reverse power handling capability. These designs package ideally suited for using solder reflow or mounting screws from the top.

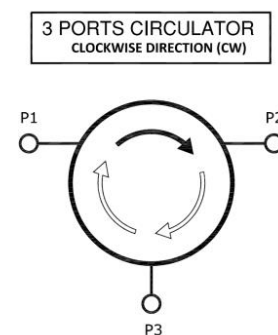


KEY FEATURES

- Broad selection of Frequency same size over wide range
 - Low Insertion loss, High Isolation and Return loss
 - Wide Operation Temperature Range
 - Magnetically Shielded
 - Designed to function after exposure to the shock, vibration, thermal shock and moisture conditions
 - Matrix Bar Code for part identify
-
- ❖ Products available with alternative configuration such as high power termination and reverse rotation direction
 - ❖ S-parameters are available upon request



FUNCTION DIAGRAM



GW FLANGE MOUNT C'BORE THRU HOLES STYLE **SMD** CIRCULATORS

- Standard industry package size and designed for automated SMT placement OR Screws from Top device down
- Robust package and connection lead Construction for High Reliability
- Low Insertion Loss, Excellent IMD, High Power Handling

25.4mm SQ-GW Thru-SMD Style CIRCULATOR

Frequency Range (MHz)		Insertion Loss (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.			
728	756	0.22/0.30	23/20	23/20	500/100	100	-40 to +85°C	SD-04	RFCR2142S
773	803	0.22/0.30	23/20	23/20	500/100	100	-40 to +85°C	SD-04	RFCR2155S
790	960	0.35/0.50	20/18	20/18	500/100	100	-40 to +85°C	SD-04	RFCR2144S
791	821	0.22/0.30	23/20	23/20	500/100	100	-40 to +85°C	SD-04	RFCR2143S
800	900	0.22/0.30	23/20	23/20	500/100	100	-40 to +85°C	SD-04	RFCR2224S
847	860	0.22/0.30	23/20	23/20	500/100	100	-40 to +85°C	SD-04	RFCR2205S
860	960	0.25/0.35	23/20	23/20	500/100	100	-40 to +85°C	SD-04	RFCR2207S
869	894	0.22/0.30	23/20	23/20	500/100	100	-40 to +85°C	SD-04	RFCR2201S
885	920	0.22/0.30	23/20	23/20	500/100	100	-40 to +85°C	SD-04	RFCR2223S
900	930	0.22/0.30	23/20	23/20	500/100	100	-40 to +85°C	SD-04	RFCR2310S
920	960	0.22/0.30	23/20	23/20	500/100	100	-40 to +85°C	SD-04	RFCR2306S
1020	1090	0.22/0.30	23/20	23/20	500/100	100	-40 to +85°C	SD-04	RFCR2307S
1165	1215	0.22/0.30	23/20	23/20	500/100	100	-40 to +85°C	SD-04	RFCR2332S
1200	1400	0.22/0.30	23/20	23/20	500/100	100	-40 to +85°C	SD-04	RFCR2301S
1420	1520	0.22/0.30	23/20	23/20	500/100	100	-40 to +85°C	SD-04	RFCR2333S
1520	1665	0.22/0.30	23/20	23/20	500/100	100	-40 to +85°C	SD-04	RFCR2408S
1710	1880	0.25/0.35	23/20	23/20	500/100	100	-40 to +85°C	SD-04	RFCR2414S
1805	1880	0.22/0.30	23/20	23/20	500/100	100	-40 to +85°C	SD-04	RFCR2502S
1880	1930	0.22/0.30	23/20	23/20	500/100	100	-40 to +85°C	SD-04	RFCR2618S
1920	2170	0.25/0.35	23/20	23/20	500/100	100	-40 to +85°C	SD-04	RFCR2619S
1930	1995	0.22/0.30	23/20	23/20	500/100	100	-40 to +85°C	SD-04	RFCR2603S
2090	2190	0.22/0.30	23/20	23/20	500/100	100	-40 to +85°C	SD-04	RFCR2704S
2010	2300	0.25/0.40	23/20	23/20	500/100	100	-40 to +85°C	SD-04	RFCR2727S
2130	2280	0.22/0.30	23/20	23/20	500/100	100	-40 to +85°C	SD-04	RFCR2726S

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

19mm SQ-GW Thru-SMD Style CIRCULATOR

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)		
1600	1650	0.22/0.30	23/20	23/20	500/100	80	-40 to +85°C	SD-05	RFCR2411S
1710	1785	0.25/0.30	23/20	23/20	500/100	80	-40 to +85°C	SD-05	RFCR2412S
1805	1880	0.22/0.30	23/20	23/20	500/100	80	-40 to +85°C	SD-05	RFCR2513S
1805	1990	0.25/0.35	22/20	22/20	500/100	80	-40 to +85°C	SD-05	RFCR2514S
1880	1930	0.22/0.30	23/20	23/20	500/100	80	-40 to +85°C	SD-05	RFCR2515S
1920	2125	0.25/0.35	22/20	22/20	500/100	80	-40 to +85°C	SD-05	RFCR2616S
1930	1995	0.22/0.30	23/20	23/20	500/100	80	-40 to +85°C	SD-05	RFCR2617S
2010	2090	0.22/0.30	23/20	23/20	500/100	80	-40 to +85°C	SD-05	RFCR2722S
2024	2286	0.25/0.35	22/20	22/20	500/100	80	-40 to +85°C	SD-05	RFCR2723S
2090	2190	0.22/0.30	23/20	23/20	500/100	80	-40 to +85°C	SD-05	RFCR2724S
2130	2280	0.22/0.30	23/20	23/20	500/100	80	-40 to +85°C	SD-05	RFCR2725S
2200	2300	0.25/0.30	23/20	23/20	500/100	80	-40 to +85°C	SD-05	RFCR2847S
2250	2650	0.25/0.35	22/20	22/20	500/100	80	-40 to +85°C	SD-05	RFCR2848S
2300	2500	0.25/0.30	23/20	23/20	500/100	80	-40 to +85°C	SD-05	RFCR2849S
2300	2700	0.25/0.35	22/20	22/20	500/100	80	-40 to +85°C	SD-05	RFCR2850S
2470	2730	0.25/0.30	23/20	23/20	500/100	80	-40 to +85°C	SD-05	RFCR2851S
2500	2700	0.22/0.30	23/20	23/20	500/100	80	-40 to +85°C	SD-05	RFCR2853S

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

NOTES:

Exposure to maximum rating conditions for extended periods may reduce device reliability

Use multiple plated thru holes in ground area under the housing of device

- 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 Application Notes for Intermodulation Distortion Measurements and Solder reflows Profile
- The Land Pattern should be with good thermal conductivity.
- Evaluation Board (EVB) is available upon request

UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE IN MILLIMETERS [INCHES]:	
TOLERANCES ARE:	
1 PLACE DECIMAL ±.2 [±.01]	ANGULAR: ±1.0°
2 PLACE DECIMAL ±.10 [±.004]	SURFACE ROUGHNESS 16√

Finish:

1. Housing: Silver plated
2. Pin: Gold plated
3. Coplanarity specification: 0.10 [.004] Max.
4. Matrix Bar Code: Part No., Serial No., and Date Code

Figure SD-04 (25.4mm GW-C' Bore Thru Holes Package Outline)

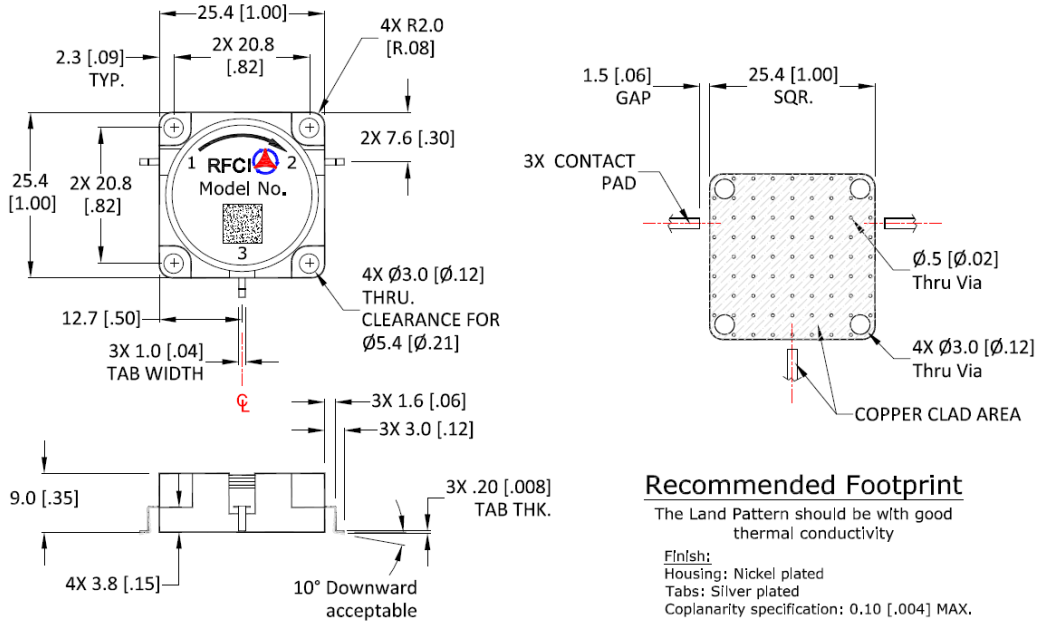


Figure SD-05 (19mm GW-C' Bore Thru Holes Package Outline)

