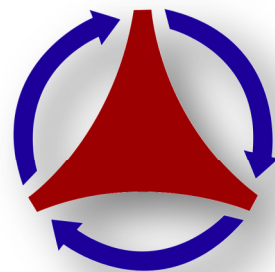


RF Circulators Isolators Inc.



SMD Circulators/Isolators Products

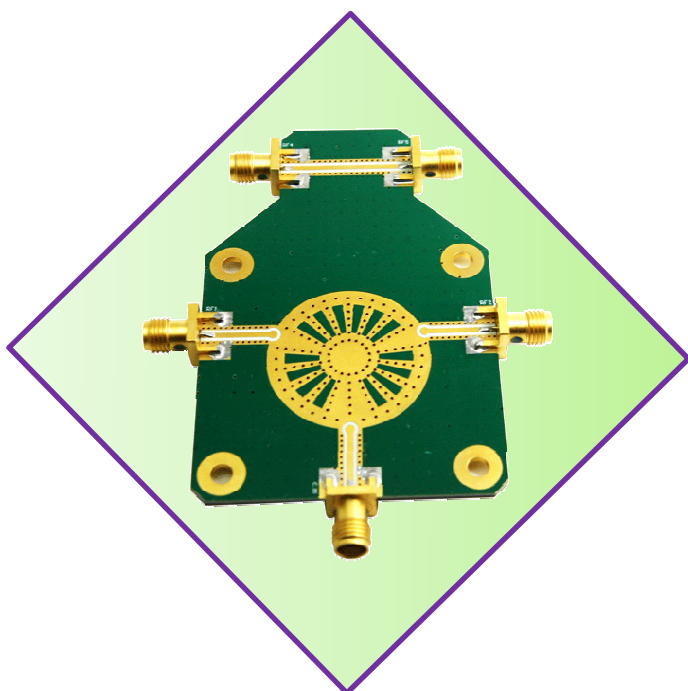


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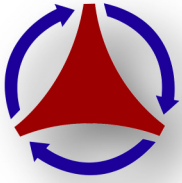
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SURFACE MOUNT PIN STYLE CIRCULATORS AND ISOLATORS

PRODUCT DESCRIPTION

RFCI SMD Circulators/ Isolators, 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 high volume manufacturing.

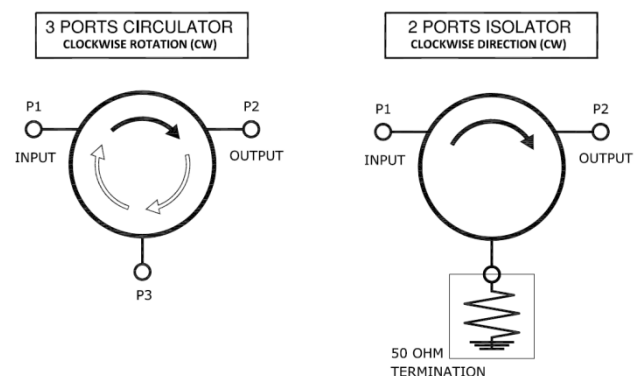
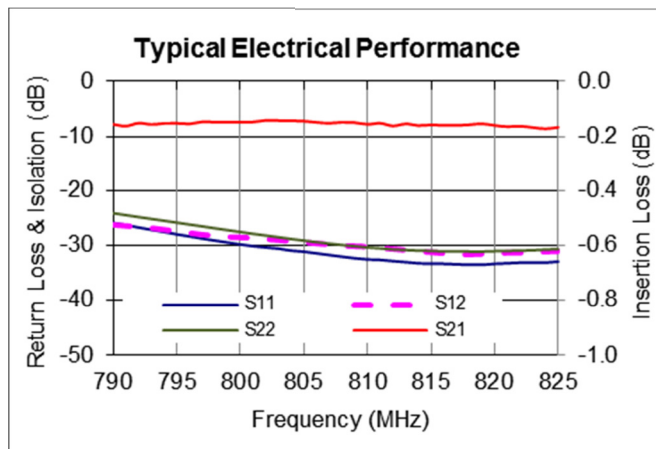
RFCI is one of the best suppliers of RF Circulators and Isolators.



KEY FEATURES

- Broad selection of Frequency
- Low Insertion loss, High Isolation and Return loss
- Wide Operation Temperature Range
- Designed to function after exposure to the shock, vibration, thermal shock and moisture conditions
- Magnetically Shielded
- Matrix Bar Code for part identify

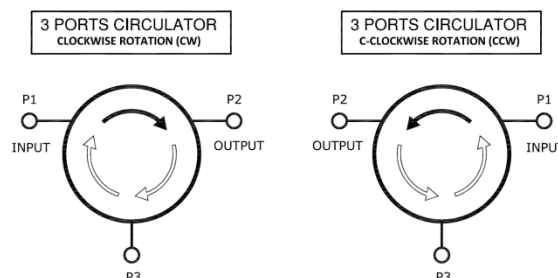
FUNCTION DIAGRAM



- ❖ Products available with alternative configuration such as high power termination and reverse rotation direction
- ❖ S-parameters are available upon request
- ❖ Ship on tape and reel on high volume Order

PIN STYLE SMD CIRCULATORS

- Standard industry package size and designed for automated SMT placement.
- Robust package and connection lead Pin Style Construction for High Reliability
- Low Insertion Loss, Excellent IMD, High Power Handling



CIRCULATOR-25.4mm [1.0"] PACKAGE SIZE

Frequency Range (MHz)		RF CI Part Number	Insertion Loss (dB)	Isolation (dB)	Return Loss (dB)	Fwd. PWR P/CW (W)	Rev PWR CW (W)	Operating Temperature	Package Outline
Low	High		Room/OT	Room/OT	Room/OT			(°C)	
728	768	RFCR5102	0.22/0.30	23/20	23/20	500/100	100	-40 to +85°C	FIG 1
773	803	RFCR5104	0.22/0.30	23/20	23/20	500/100	100	-40 to +85°C	FIG 1
791	821	RFCR5103	0.22/0.30	23/20	23/20	500/100	100	-40 to +85°C	FIG 1
830	890	RFCR5203	0.35/0.40	21/19	21/19	500/100	100	-40 to +85°C	FIG 1
860	890	RFCR5202	0.22/0.30	23/20	23/20	500/100	100	-40 to +85°C	FIG 1
869	894	RFCR5201	0.22/0.30	23/20	23/20	500/100	100	-40 to +85°C	FIG 1
902	928	RFCR5303	0.22/0.30	23/20	23/20	500/100	100	-40 to +85°C	FIG 1
920	960	RFCR5301	0.22/0.30	23/20	23/20	500/100	100	-40 to +85°C	FIG 1
1020	1090	RFCR5302	0.22/0.30	23/20	23/20	500/100	100	-40 to +85°C	FIG 1
1165	1215	RFCR5304	0.22/0.30	23/20	23/20	500/100	100	-40 to +85°C	FIG 1
1200	1400	RFCR5306	0.25/0.35	23/20	23/20	500/100	100	-40 to +85°C	FIG 1
1420	1520	RFCR5305	0.22/0.30	23/20	23/20	500/100	100	-40 to +85°C	FIG 1
1520	1665	RFCR5402	0.25/0.30	23/20	23/20	500/100	100	-40 to +85°C	FIG 1
1625	1680	RFCR5403	0.25/0.30	23/20	23/20	500/100	100	-40 to +85°C	FIG 1
1710	1785	RFCR5404	0.25/0.30	23/20	23/20	500/100	100	-40 to +85°C	FIG 1
1805	1880	RFCR5502	0.22/0.30	23/20	23/20	500/100	100	-40 to +85°C	FIG 1
1880	1930	RFCR5503	0.22/0.30	23/20	23/20	500/100	100	-40 to +85°C	FIG 1
1930	1995	RFCR5602	0.22/0.30	23/20	23/20	500/100	100	-40 to +85°C	FIG 1
2090	2190	RFCR5702	0.22/0.30	23/20	23/20	500/100	100	-40 to +85°C	FIG 1
2130	2280	RFCR5704	0.22/0.30	23/20	23/20	500/100	100	-40 to +85°C	FIG 1

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

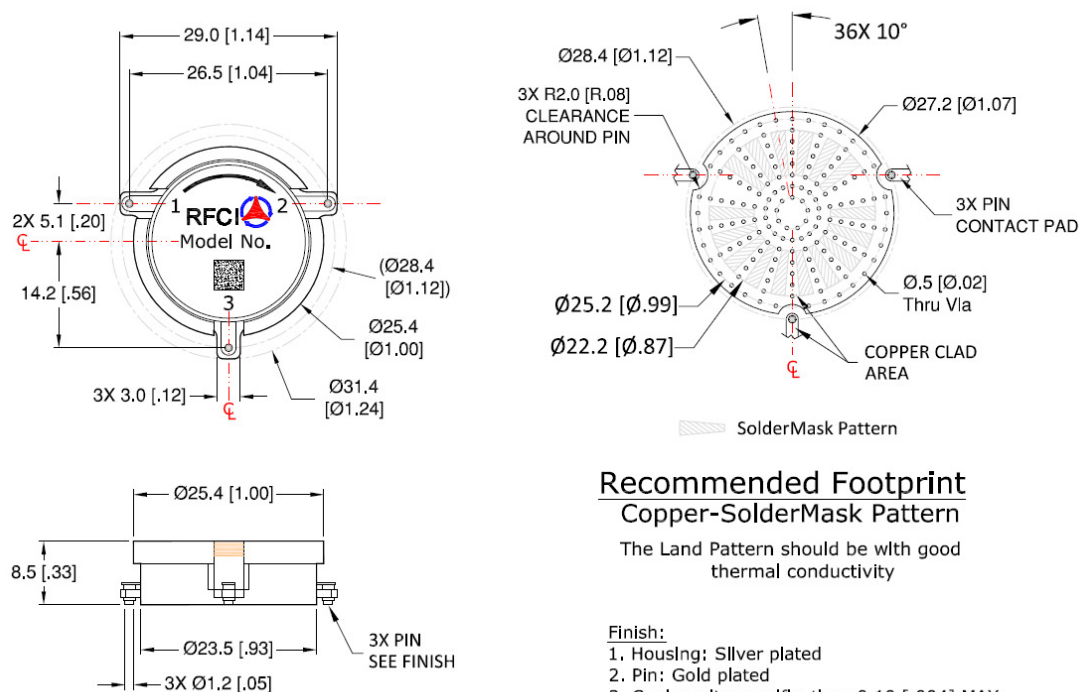
- S-Parameters to be measured by connecting Port 1 and Port 2 to VNA and Port 3 to Load with load return loss 30dB or higher.
- See RFCI Application Notes for Solder reflows Profile and Intermodulation Distortion Measurements
- Evaluation Board (EVB) is available upon request

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

FINISH:

1. Housing: Silver plated
2. Pin: Gold plated
3. Coplanarity specification: 0.10 [.004] MAX.

Fig. 1 (25.4mm Package Dimension)



Recommended Footprint Copper-SolderMask Pattern

The Land Pattern should be with good thermal conductivity

Finish:

1. Housing: Silver plated
2. Pin: Gold plated
3. Coplanarity specification: 0.10 [.004] MAX.

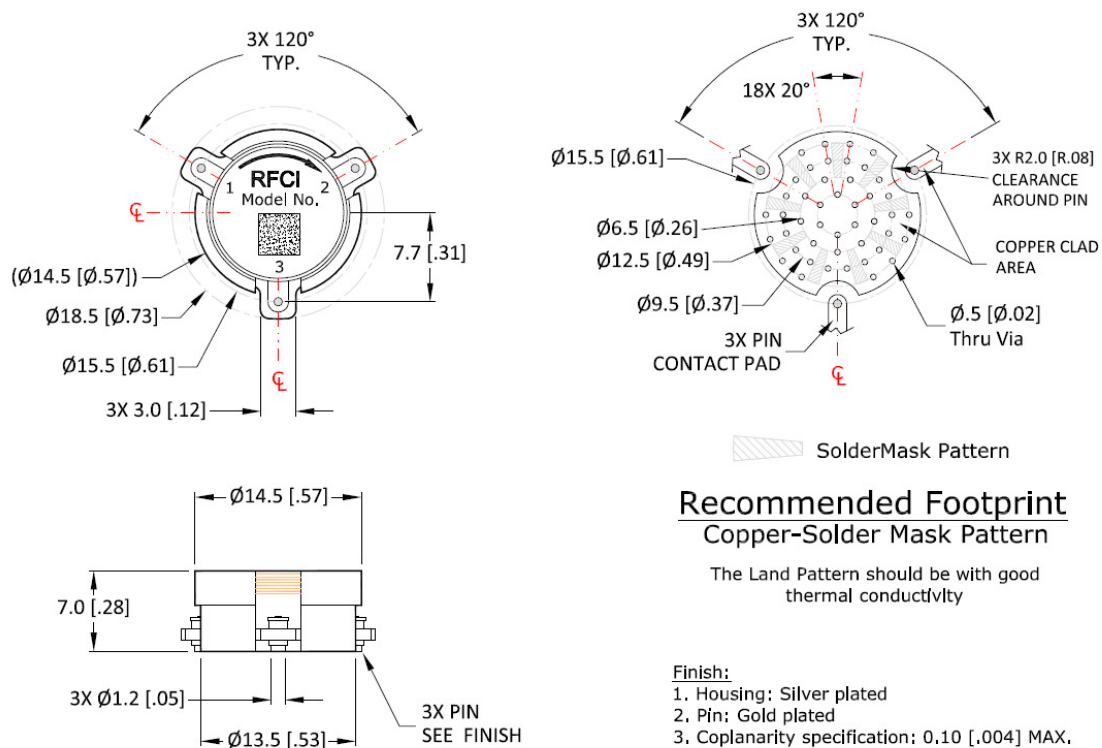
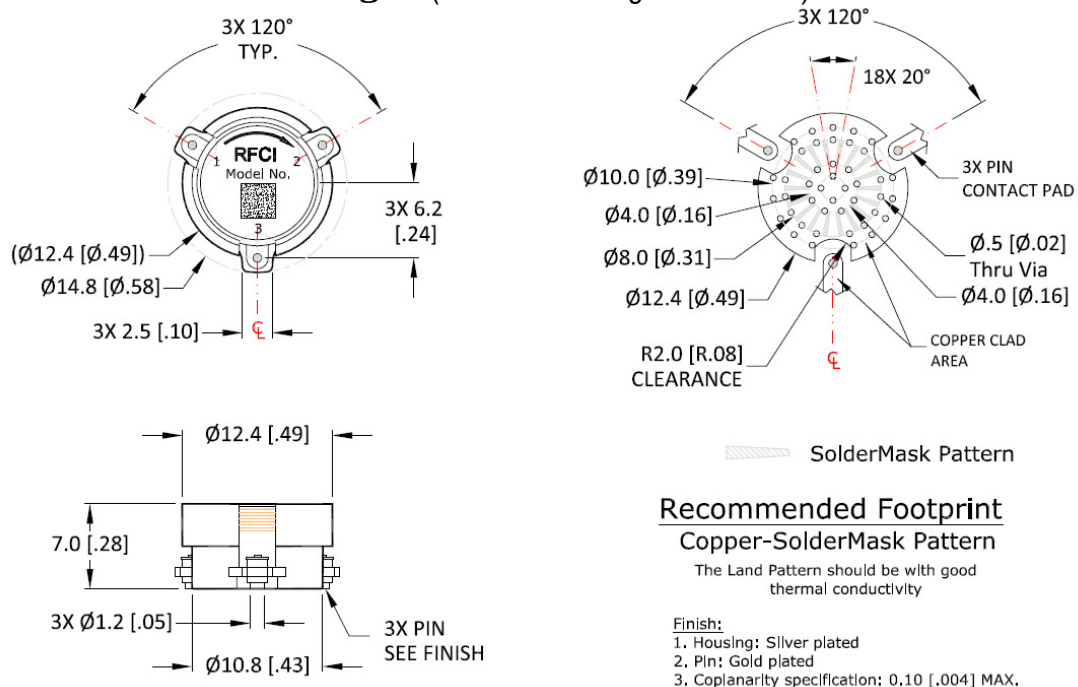
CIRCULATOR-14.5mm [0.57"] PACKAGE SIZE

Frequency Range (MHz)		RFCI Part Number	Insertion Loss (dB)	Isolation (dB)	Return Loss (dB)	Fwd. PWR P/CW (W)	Rev PWR CW (W)	Operating Temperature	Package Outline
Low	High		Room/OT	Room/OT	Room/OT			(°C)	
1625	1680	RFCR5401	0.25/0.30	23/20	23/20	500/100	80	-40 to +85°C	FIG 2
1710	1785	RFCR5405	0.25/0.30	23/20	23/20	500/100	80	-40 to +85°C	FIG 2
1805	1880	RFCR5505	0.22/0.30	23/20	23/20	500/100	80	-40 to +85°C	FIG 2
1880	1930	RFCR5504	0.22/0.30	23/20	23/20	500/100	80	-40 to +85°C	FIG 2
1930	1995	RFCR5601	0.22/0.30	23/20	23/20	500/100	80	-40 to +85°C	FIG 2
2110	2170	RFCR5701	0.22/0.30	23/20	23/20	500/100	80	-40 to +85°C	FIG 2
2130	2280	RFCR5705	0.25/0.35	23/20	23/20	500/100	80	-40 to +85°C	FIG 2
2200	2400	RFCR5806	0.25/0.30	23/20	23/20	500/100	80	-40 to +85°C	FIG 2
2320	2370	RFCR5810	0.25/0.30	23/20	23/20	500/100	80	-40 to +85°C	FIG 2
2365	2435	RFCR5811	0.25/0.30	23/20	23/20	500/100	80	-40 to +85°C	FIG 2
2400	2500	RFCR5812	0.25/0.30	23/20	23/20	500/100	80	-40 to +85°C	FIG 2
2550	2650	RFCR5813	0.25/0.30	23/20	23/20	500/100	80	-40 to +85°C	FIG 2
2620	2690	RFCR5801	0.25/0.30	23/20	23/20	500/100	80	-40 to +85°C	FIG 2
2700	2900	RFCR5814	0.25/0.30	23/20	23/20	500/100	80	-40 to +85°C	FIG 2
2900	3100	RFCR5815	0.25/0.30	23/20	23/20	500/100	80	-40 to +85°C	FIG 2
3100	3300	RFCR5816	0.25/0.30	23/20	23/20	500/100	80	-40 to +85°C	FIG 2
3200	3400	RFCR5804	0.25/0.30	23/20	23/20	500/100	80	-40 to +85°C	FIG 2

CIRCULATOR-12.4mm [0.49"] PACKAGE SIZE

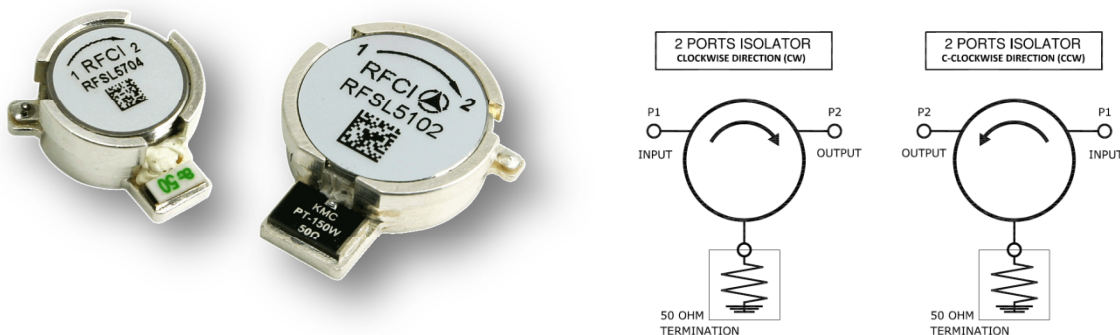
Frequency Range (MHz)		RFCI Part Number	Insertion Loss (dB)	Isolation (dB)	Return Loss (dB)	Fwd. PWR P/CW (W)	Rev PWR CW (W)	Operating Temperature	Package Outline
Low	High		Room/OT	Room/OT	Room/OT			(°C)	
2320	2370	RFCR5817	0.25/0.30	22/20	22/20	500/50	10	-40 to +85°C	FIG 3
2365	2435	RFCR5818	0.25/0.30	22/20	22/20	500/50	10	-40 to +85°C	FIG 3
2400	2500	RFCR5819	0.25/0.30	22/20	22/20	500/50	10	-40 to +85°C	FIG 3
2550	2650	RFCR5820	0.25/0.30	22/20	22/20	500/50	10	-40 to +85°C	FIG 3
2620	2690	RFCR5821	0.25/0.30	22/20	22/20	500/50	10	-40 to +85°C	FIG 3
2700	2900	RFCR5822	0.25/0.30	22/20	22/20	500/50	10	-40 to +85°C	FIG 3
2900	3100	RFCR5823	0.25/0.30	22/20	22/20	500/50	10	-40 to +85°C	FIG 3
3100	3300	RFCR5824	0.25/0.30	22/20	22/20	500/50	10	-40 to +85°C	FIG 3
3200	3400	RFCR5825	0.25/0.30	22/20	22/20	500/50	10	-40 to +85°C	FIG 3

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

Fig. 2 (14.5mm Package Dimension)**Fig. 3 (12.4mm Package Dimension)**

PIN STYLE SMD ISOLATORS

- Standard industry package size and designed for automated SMT placement.
- Robust package and connection lead Pin Style Construction for High Reliability
- Low Insertion Loss, Excellent IMD, High Power Handling up to 100W CW reverse



80 Watts ISOLATOR -25.4mm [1.0"] PACKAGE SIZE

Frequency Range (MHz)		RFCI Part Number	Insertion Loss (dB)	Isolation (dB)	Return Loss (dB)	Fwd. PWR P/CW (W)	Rev PWR CW (W)	Operating Temperature	Package Outline
Low	High		Room/OT	Room/OT	Room/OT			(°C)	
728	768	RFSL5104	0.22/0.30	23/20	23/20	500/100	80	-40 to +85°C	FIG 4
773	803	RFSL5108	0.22/0.30	23/20	23/20	500/100	80	-40 to +85°C	FIG 4
791	821	RFSL5110	0.22/0.30	23/20	23/20	500/100	80	-40 to +85°C	FIG 4
830	890	RFSL5207	0.35/0.40	21/19	21/19	500/100	80	-40 to +85°C	FIG 4
860	890	RFSL5209	0.22/0.30	23/20	23/20	500/100	80	-40 to +85°C	FIG 4
869	894	RFSL5202	0.22/0.30	23/20	23/20	500/100	80	-40 to +85°C	FIG 4
902	928	RFSL5306	0.22/0.30	23/20	23/20	500/100	80	-40 to +85°C	FIG 4
920	960	RFSL5301	0.22/0.30	23/20	23/20	500/100	80	-40 to +85°C	FIG 4
1020	1090	RFSL5303	0.22/0.30	23/20	23/20	500/100	80	-40 to +85°C	FIG 4
1165	1215	RFSL5309	0.22/0.30	23/20	23/20	500/100	80	-40 to +85°C	FIG 4
1200	1400	RFSL5311	0.25/0.35	23/20	23/20	500/100	80	-40 to +85°C	FIG 4
1420	1520	RFSL5313	0.22/0.30	23/20	23/20	500/100	80	-40 to +85°C	FIG 4
1520	1665	RFSL5402	0.25/0.30	23/20	23/20	500/100	80	-40 to +85°C	FIG 4
1625	1680	RFSL5404	0.25/0.30	23/20	23/20	500/100	80	-40 to +85°C	FIG 4
1710	1785	RFSL5406	0.25/0.30	23/20	23/20	500/100	80	-40 to +85°C	FIG 4
1805	1880	RFSL5501	0.22/0.30	23/20	23/20	500/100	80	-40 to +85°C	FIG 4
1880	1930	RFSL5505	0.22/0.30	23/20	23/20	500/100	80	-40 to +85°C	FIG 4
1930	1995	RFSL5601	0.22/0.30	23/20	23/20	500/100	80	-40 to +85°C	FIG 4
2090	2190	RFSL5701	0.22/0.30	23/20	23/20	500/100	80	-40 to +85°C	FIG 4
2130	2280	RFSL5705	0.22/0.30	23/20	23/20	500/100	80	-40 to +85°C	FIG 4

20 Watts ISOLATOR-25.4mm [1.0"] Package Size

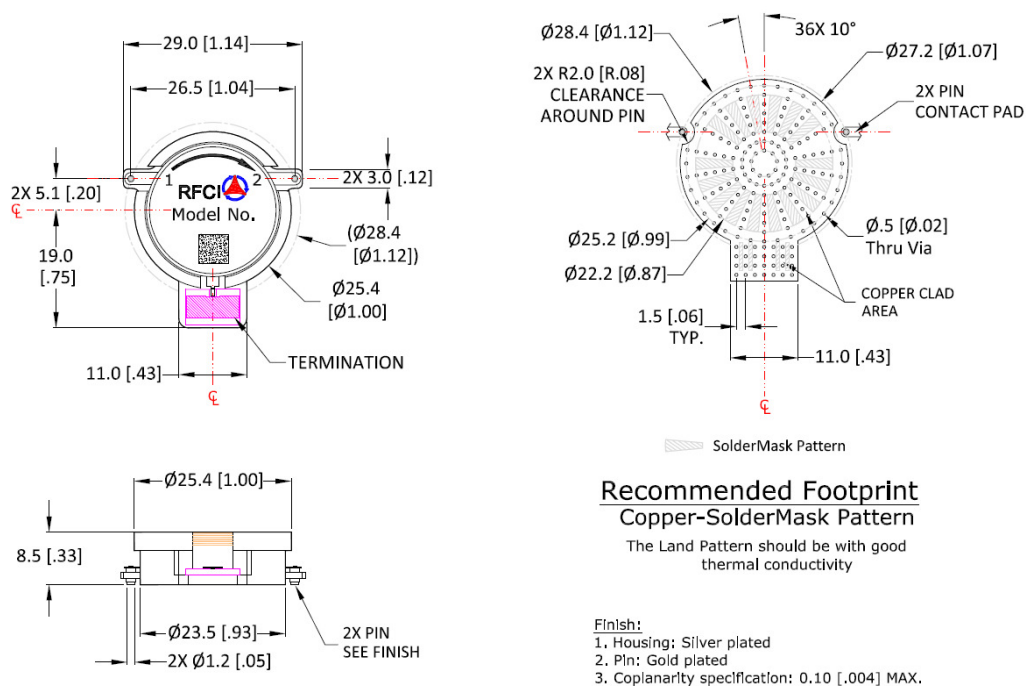
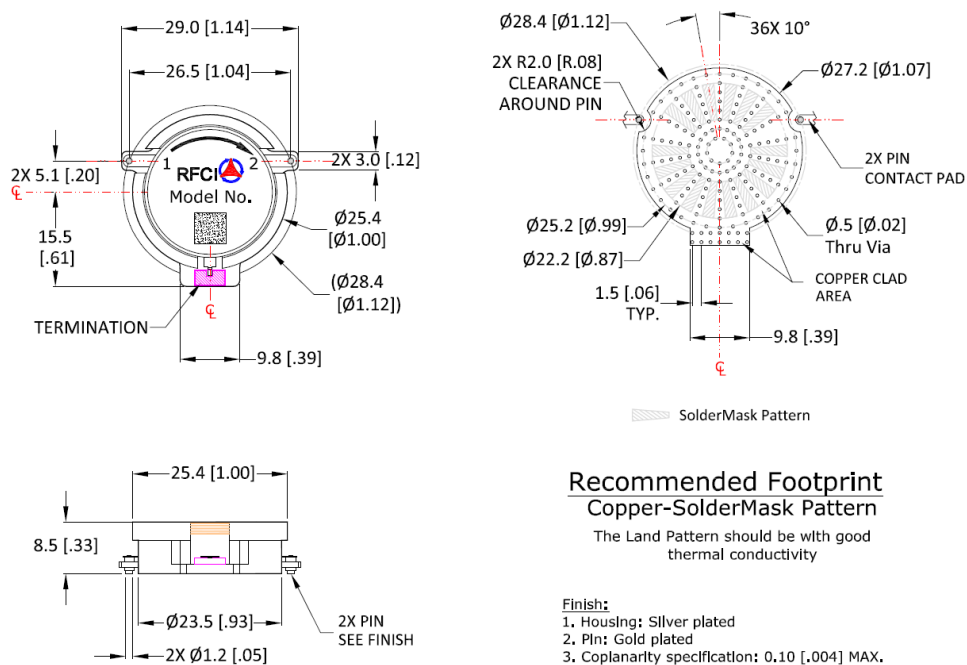
Frequency Range (MHz)		RFCI Part Number	Insertion Loss (dB)	Isolation (dB)	Return Loss (dB)	Fwd. PWR P/CW (W)	Rev PWR CW (W)	Operating Temperature	Package Outline
Low	High		Room/OT	Room/OT	Room/OT			(°C)	
728	768	RFSL5105	0.22/0.30	23/20	23/20	500/100	20	-40 to +85°C	FIG 5
773	803	RFSL5109	0.22/0.30	23/20	23/20	500/100	20	-40 to +85°C	FIG 5
791	821	RFSL5111	0.22/0.30	23/20	23/20	500/100	20	-40 to +85°C	FIG 5
830	890	RFSL5208	0.35/0.40	21/19	21/19	500/100	20	-40 to +85°C	FIG 5
860	890	RFSL5205	0.22/0.30	23/20	23/20	500/100	20	-40 to +85°C	FIG 5
869	894	RFSL5203	0.22/0.30	23/20	23/20	500/100	20	-40 to +85°C	FIG 5
902	928	RFSL5307	0.22/0.30	23/20	23/20	500/100	20	-40 to +85°C	FIG 5
920	960	RFSL5308	0.22/0.30	23/20	23/20	500/100	20	-40 to +85°C	FIG 5
1020	1090	RFSL5304	0.22/0.30	23/20	23/20	500/100	20	-40 to +85°C	FIG 5
1165	1215	RFSL5310	0.22/0.30	23/20	23/20	500/100	20	-40 to +85°C	FIG 5
1200	1400	RFSL5312	0.25/0.35	23/20	23/20	500/100	20	-40 to +85°C	FIG 5
1420	1520	RFSL5314	0.22/0.30	23/20	23/20	500/100	20	-40 to +85°C	FIG 5
1520	1665	RFSL5403	0.25/0.30	23/20	23/20	500/100	20	-40 to +85°C	FIG 5
1625	1680	RFSL5405	0.25/0.30	23/20	23/20	500/100	20	-40 to +85°C	FIG 5
1710	1785	RFSL5407	0.25/0.30	23/20	23/20	500/100	20	-40 to +85°C	FIG 5
1805	1880	RFSL5502	0.22/0.30	23/20	23/20	500/100	20	-40 to +85°C	FIG 5
1880	1930	RFSL5506	0.22/0.30	23/20	23/20	500/100	20	-40 to +85°C	FIG 5
1930	1995	RFSL5602	0.22/0.30	23/20	23/20	500/100	20	-40 to +85°C	FIG 5
2090	2190	RFSL5702	0.22/0.30	23/20	23/20	500/100	20	-40 to +85°C	FIG 5
2130	2280	RFSL5706	0.22/0.30	23/20	23/20	500/100	20	-40 to +85°C	FIG 5

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
- See RFCI Application Notes for Solder reflows Profile and Intermodulation Distortion Measurements
- 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/

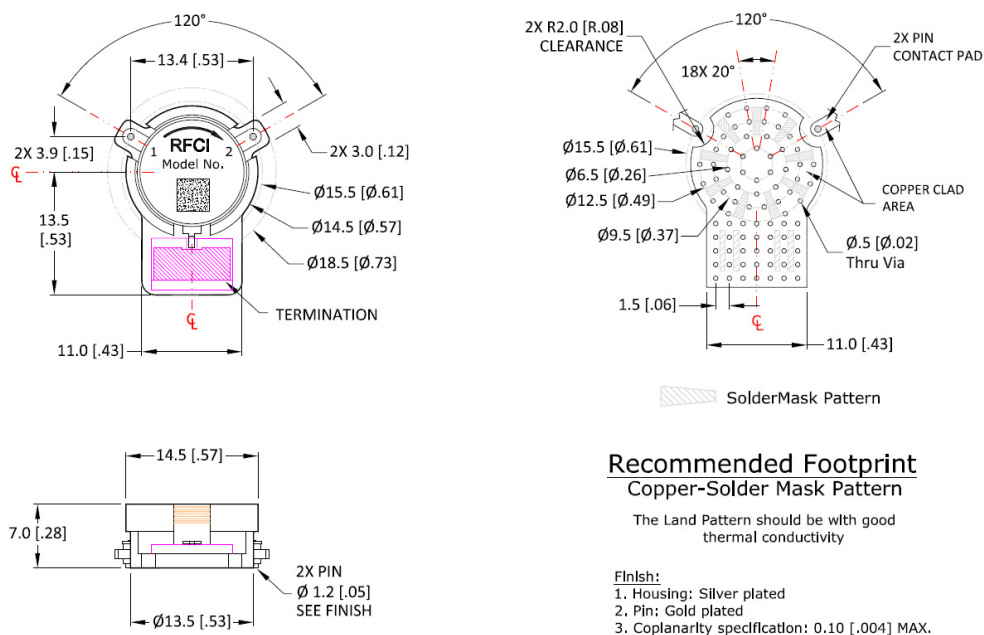
FINISH:
 1. Housing: Silver plated
 2. Pin: Gold plated
 3. Coplanarity specification: 0.10 [.004] MAX.

Fig. 4 (80Watts- 25.4mm Package Dimension)**Fig. 5 (20Watts- 25.4mm Package Dimension)**

60 Watts ISOLATOR-14.5mm [0.57"] PACKAGE SIZE

Frequency Range (MHz)		RFCI Part Number	Insertion Loss (dB)	Isolation (dB)	Return Loss (dB)	Fwd. PWR P/CW (W)	Rev PWR CW (W)	Operating Temperature	Package Outline
Low	High		Room/OT	Room/OT	Room/OT			(°C)	
1625	1680	RFSL5409	0.25/0.30	23/20	23/20	500/80	60	-40 to +85°C	FIG 6
1710	1785	RFSL5410	0.25/0.30	23/20	23/20	500/80	60	-40 to +85°C	FIG 6
1805	1880	RFSL5508	0.22/0.30	23/20	23/20	500/80	60	-40 to +85°C	FIG 6
1880	1930	RFSL5509	0.22/0.30	23/20	23/20	500/80	60	-40 to +85°C	FIG 6
1930	1995	RFSL5603	0.22/0.30	23/20	23/20	500/80	60	-40 to +85°C	FIG 6
2110	2170	RFSL5703	0.22/0.30	23/20	23/20	500/80	60	-40 to +85°C	FIG 6
2130	2280	RFSL5708	0.25/0.35	23/20	23/20	500/80	60	-40 to +85°C	FIG 6
2200	2400	RFSL5815	0.25/0.35	23/20	23/20	500/80	60	-40 to +85°C	FIG 6
2320	2370	RFSL5816	0.25/0.30	23/20	23/20	500/80	60	-40 to +85°C	FIG 6
2365	2435	RFSL5817	0.25/0.30	23/20	23/20	500/80	60	-40 to +85°C	FIG 6
2400	2500	RFSL5818	0.25/0.30	23/20	23/20	500/80	60	-40 to +85°C	FIG 6
2550	2650	RFSL5819	0.25/0.30	23/20	23/20	500/80	60	-40 to +85°C	FIG 6
2620	2690	RFSL5801	0.25/0.30	23/20	23/20	500/80	60	-40 to +85°C	FIG 6
2700	2900	RFSL5820	0.25/0.30	23/20	23/20	500/80	60	-40 to +85°C	FIG 6
2900	3100	RFSL5821	0.25/0.30	23/20	23/20	500/80	60	-40 to +85°C	FIG 6
3100	3300	RFSL5822	0.25/0.30	23/20	23/20	500/80	60	-40 to +85°C	FIG 6
3200	3400	RFSL5823	0.25/0.30	23/20	23/20	500/80	60	-40 to +85°C	FIG 6

Fig. 6 (60Watts- 14.5mm Package Dimension)

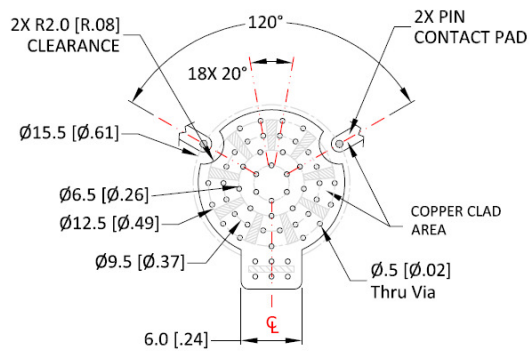
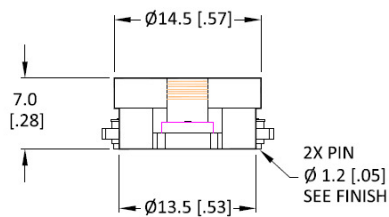
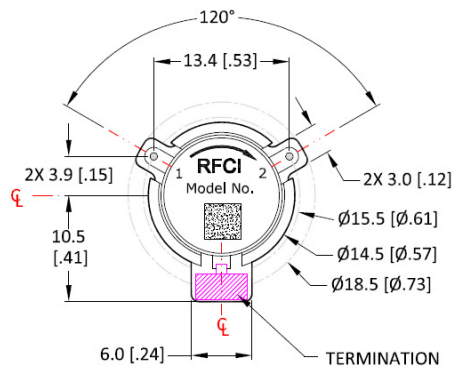


20 Watts ISOLATOR-14.5mm [0.57"] PACKAGE SIZE

Frequency Range (MHz)		RFCI Part Number	Insertion Loss (dB)	Isolation (dB)	Return Loss (dB)	Fwd. PWR P/CW (W)	Rev PWR CW (W)	Operating Temperature	Package Outline
Low	High		Room/OT	Room/OT	Room/OT			(°C)	
1625	1680	RFSL5411	0.25/0.30	23/20	23/20	500/80	20	-40 to +85°C	FIG 7
1710	1785	RFSL5408	0.25/0.30	23/20	23/20	500/80	20	-40 to +85°C	FIG 7
1805	1880	RFSL5504	0.22/0.30	23/20	23/20	500/80	20	-40 to +85°C	FIG 7
1880	1930	RFSL5507	0.22/0.30	23/20	23/20	500/80	20	-40 to +85°C	FIG 7
1930	1995	RFSL5604	0.22/0.30	23/20	23/20	500/80	20	-40 to +85°C	FIG 7
2110	2170	RFSL5704	0.22/0.30	23/20	23/20	500/80	20	-40 to +85°C	FIG 7
2130	2280	RFSL5707	0.25/0.35	23/20	23/20	500/80	20	-40 to +85°C	FIG 7
2200	2400	RFSL5805	0.25/0.35	23/20	23/20	500/80	20	-40 to +85°C	FIG 7
2320	2370	RFSL5807	0.25/0.30	23/20	23/20	500/80	20	-40 to +85°C	FIG 7
2365	2435	RFSL5808	0.25/0.30	23/20	23/20	500/80	20	-40 to +85°C	FIG 7
2400	2500	RFSL5809	0.25/0.30	23/20	23/20	500/80	20	-40 to +85°C	FIG 7
2550	2650	RFSL5810	0.25/0.30	23/20	23/20	500/80	20	-40 to +85°C	FIG 7
2620	2690	RFSL5802	0.25/0.30	23/20	23/20	500/80	20	-40 to +85°C	FIG 7
2700	2900	RFSL5811	0.25/0.30	23/20	23/20	500/80	20	-40 to +85°C	FIG 7
2900	3100	RFSL5812	0.25/0.30	23/20	23/20	500/80	20	-40 to +85°C	FIG 7
3100	3300	RFSL5813	0.25/0.30	23/20	23/20	500/80	20	-40 to +85°C	FIG 7
3200	3400	RFSL5814	0.25/0.30	23/20	23/20	500/80	20	-40 to +85°C	FIG 7

20 Watts ISOLATOR-12.4mm [0.49"] PACKAGE SIZE

Frequency Range (MHz)		RFCI Part Number	Insertion Loss (dB)	Isolation (dB)	Return Loss (dB)	Fwd. PWR P/CW (W)	Rev PWR CW (W)	Operating Temperature	Package Outline
Low	High		Room/OT	Room/OT	Room/OT			(°C)	
2320	2370	RFSL5824	0.25/0.30	22/20	22/20	500/50	10	-40 to +85°C	FIG 8
2365	2435	RFSL5825	0.25/0.30	22/20	22/20	500/50	10	-40 to +85°C	FIG 8
2400	2500	RFSL5826	0.25/0.30	22/20	22/20	500/50	10	-40 to +85°C	FIG 8
2550	2650	RFSL5827	0.25/0.30	22/20	22/20	500/50	10	-40 to +85°C	FIG 8
2620	2690	RFSL5828	0.25/0.30	22/20	22/20	500/50	10	-40 to +85°C	FIG 8
2700	2900	RFSL5829	0.25/0.30	22/20	22/20	500/50	10	-40 to +85°C	FIG 8
2900	3100	RFSL5830	0.25/0.30	22/20	22/20	500/50	10	-40 to +85°C	FIG 8
3100	3300	RFSL5831	0.25/0.30	22/20	22/20	500/50	10	-40 to +85°C	FIG 8
3200	3400	RFSL5832	0.25/0.30	22/20	22/20	500/50	10	-40 to +85°C	FIG 8

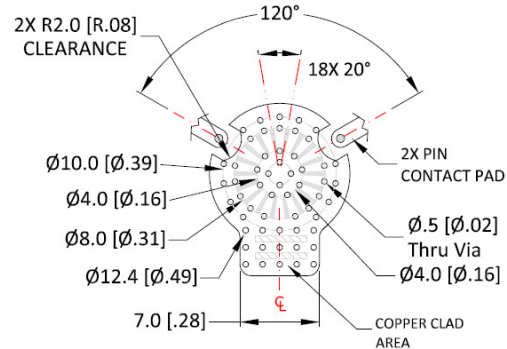
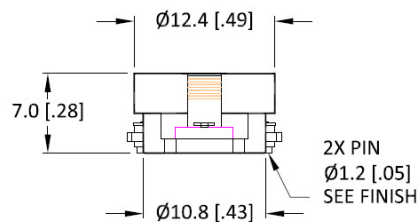
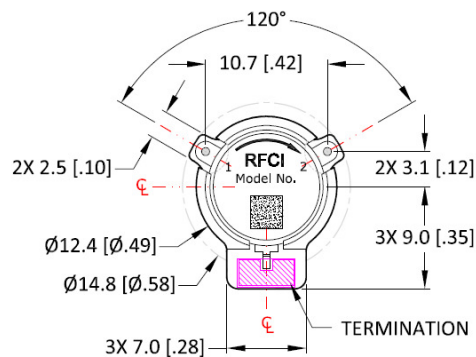
Fig. 7 (20Watts- 14.5mm Package Dimension)

Recommended Footprint Copper-Solder Mask Pattern

The Land Pattern should be with good thermal conductivity

Finish:

1. Housing: Silver plated
2. Pin: Gold plated
3. Coplanarity specification: 0.10 [0.004] MAX.

Fig. 8 (20Watts- 12.4mm Package Dimension)

Recommended Footprint Copper-SolderMask Pattern

The Land Pattern should be with good thermal conductivity

Finish:

1. Housing: Silver plated
2. Pin: Gold plated
3. Coplanarity specification: 0.10 [0.004] MAX.