



DrawCom Ferrite Isolators provide further isolation between the transmitters in a combiner system, in particular giving extra protection against the generation of intermodulation products in the PA stage of a transmitter. Where higher levels of isolation are required, DrawCom dual ferrite isolators provide up to 60dB isolation with a broader bandwidth.

- 30dB isolation (typical)
- Low insertion loss
- Low VSWR
- Power ratings to 300W
- Narrowband or Broadband
- Reverse power detection available

Isolators VHF & UHF

Typical Specifications

Bandwidth:	2% from Centre Frequency
Isolation:	typical 30 dB, minimum 20 dB
Insertion Loss:	0.3 dB Typically
VSWR:	1.2:1
Forward Power:	10, 25, 50
Temperature:	-10 to +55°C
Connectors:	N Type as standard. BNC or SMA optional

Selection Guide

Forward Power	Frequency	Part No.
10W	60-140 MHz	08-004006
	140-330 MHz	08-004007
	330-470 MHz	08-004008
25W	60-140 MHz	08-004903
	140-330 MHz	08-004904
	330-470 MHz	08-004905
50W	60-140 MHz	08-005003
	140-330 MHz	08-005004
	330-470 MHz	08-005005



An RF isolator is a two-port passive device made of magnets and ferrite material that is used to protect other RF components from excessive signal reflection.

DrawCom offers both RF isolators & circulators available in N & SMA-Female connectors in the most “popular” frequency bands between 0.8 - 8.0 GHz.

RF/Microwave Isolators

Selection Guide

Catalog Number	Connector Style	Frequency (GHz)	Insertion Loss (Max)	VSWR (Max)	Isolation (Min)	Operating Case Temp (°C)
IS-0.900	SMA-Female	0.8-1.0	0.4	1.25:1	20 dB	-20 to +65
IN-0.900	N-Female	0.8-1.0	0.4	1.25:1	20 dB	-20 to +65
IS-1.950	SMA-Female	1.7-2.2	0.4	1.25:1	20 dB	-20 to +65
IN-1.950	N-Female	1.7-2.2	0.4	1.25:1	20 dB	-20 to +65
IS-2.500	SMA-Female	2.3-2.7	0.4	1.25:1	20 dB	-20 to +65
IN-2.500	N-Female	2.3-2.7	0.4	1.25:1	20 dB	-20 to +65
IS-3.000	SMA-Female	2.0-4.0	0.6	1.35:1	17 dB	0 to +65
IN-3.000	N-Female	2.0-4.0	0.6	1.35:1	17 dB	0 to +65
IS-6.000	SMA-Female	4.0-8.0	0.5	1.30:1	18.5 dB	-10 to +65
IN-6.000	N-Female	4.0-8.0	0.5	1.30:1	18.5 dB	-10 to +65

Notes:

1. Isolators are designed with an internal 10W load capability. Consult DrawCom for application information.
2. Higher Isolator power levels can be achieved utilizing our circulators with an external load. DrawCom carries an extensive selection of high power loads. Please consult with MECA applications engineer to discuss your requirement.
3. Isolation performance contingent on a VSWR of 1.05:1 Max. on terminated ports.
4. Circulator power rated into a load mismatch of 1.05:1 all phase angles.
5. Additional frequency ranges available, please consult with factory for specific ranges.
6. Heat sink temperature must not exceed the maximum operating temperature specified.

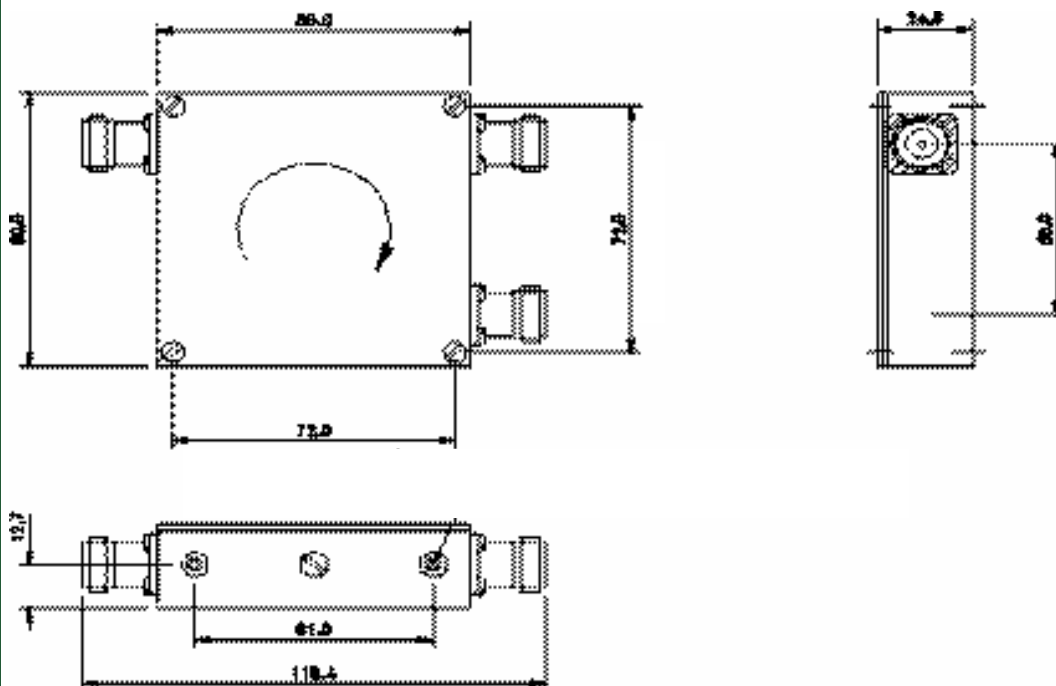


Being a three port device, DrawCom 3-port isolators can be used as a circulator. They provide further isolation between the transmitters in a combiner system, in particular giving extra protection against the generation of intermodulation products in the PA stage of a transmitter.

- 30dB isolation (typical)
- Low insertion loss
- Low VSWR
- Power ratings to 300W
- Narrowband or Broadband
- Reverse power detection available

Circulators: VHF & UHF

Typical Specifications		
Frequency Range:	60-150 MHz 150-300 MHz 300-470 MHz	Part No. 08-004012 Part No. 08-004013 Part No. 08-004014
Bandwidth:	2% from Centre Frequency	
Isolation (dB):	typical 30, minimum 20	
Insertion Loss:	0.3 dB Typically	
VSWR:	1.3:1	
Forward Power:	250 Watts	
Temperature:	-10 to +55°C	
Connectors:	N Type as standard. BNC or SMA optional	





An RF circulator is a three-port passive device used to control the direction of signal flow in a circuit. DrawCom offers both RF isolators & circulators available in N & SMA-Female connectors in the most “popular” frequency bands between 0.8 - 8.0 GHz.

RF/Microwave Circulators

Selection Guide

Part Number	Connector Style	Frequency (GHz)	Insertion Loss (Max)	VSWR (Max)	Isolation (Min)	Power (Watts) Average	Operating Case Temp (°C)
CS-0.900	SMA-Female	0.8-1.0	0.4	1.25:1	20 dB	250	-20 to +65
CN-0.900	N-Female	0.8-1.0	0.4	1.25:1	20 dB	250	-20 to +65
CS-1.950	SMA-Female	1.7-2.2	0.4	1.25:1	20 dB	150	-20 to +65
CN-1.950	N-Female	1.7-2.2	0.4	1.25:1	20 dB	150	-20 to +65
CS-2.500	SMA-Female	2.3-2.7	0.4	1.25:1	20 dB	150	-20 to +65
CN-2.500	N-Female	2.3-2.7	0.4	1.25:1	20 dB	150	-20 to +65
CS-3.000	SMA-Female	2.0-4.0	0.6	1.35:1	17 dB	25	0 to +65
CN-3.000	N-Female	2.0-4.0	0.6	1.35:1	17 dB	25	0 to +65
CS-6.000	SMA-Female	4.0-8.0	0.5	1.30:1	18.5 dB	2	-10 to +65
CN-6.000	N-Female	4.0-8.0	0.5	1.30:1	18.5 dB	2	-10 to +65

Notes:

1. Isolation performance contingent on a VSWR of 1.05:1 Max. on terminated ports.
2. Circulator power rated into a load mismatch of 1.05:1 all phase angles.
3. Additional frequency ranges available, please consult with factory for specific ranges.
4. Heat sink temperature must not exceed the maximum operating temperature specified.