RADITEK INC.

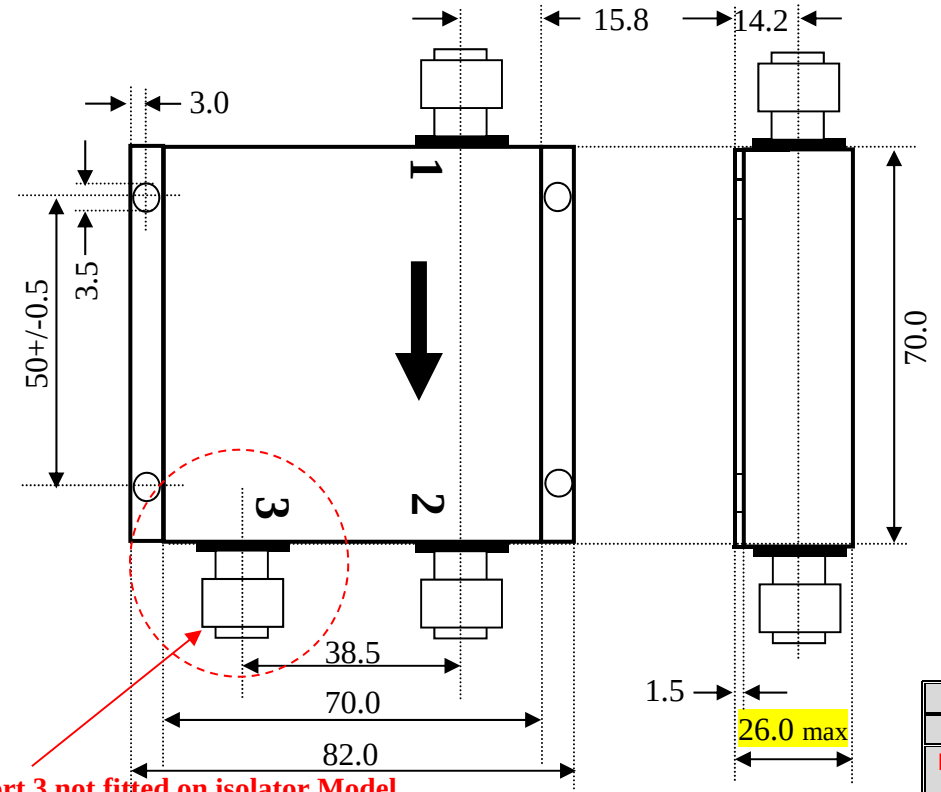
RoHS COMPLIANT

Code-b

Isolator or Circulator, SMA or N connectors

RADCorI-225-410M-SX-XW (1, 5, 10, 25, 35, 40, 50 or 100*Watts)

**Note units with FORWARD + REVERSE POWER > 75Watts contain expensive HiQ, Hi Power Capacitors*



****Isolators are to be installed on heat conducting metallic surfaces made on non-magnetic metals (aluminum, copper, ect).**

It is not advised to install the devices on magnetic surfaces (steel, iron, etc.) and not advised to install the devices at distance less than 20mm of each other.

Tolerance (unless otherwise stated):
Hole diameter +/- 0.004
Dimensions +/- 0.015
Machined surfaces 63
Flatness 0.001/inch
Bend radius 1/32 inch

Port 3 not fitted on isolator Model
5/10/50/100 Watt isolators have internal load in place of port 3

N / SMA Connector options (X)				
Isolator			Circulator	
Port 1	Port 2		Port 3 Male	Port 3 Female
Female	Male	-1	-11	-21
Male	Female	-2	-12	-22
Female	Female	-3	-13	-23
Male	Male	-4	-14	-24

Direction of RF:	
R	Default →
L	←

Units: mm
Not to scale

Order Examples: RADC-225-400M-S23-25WR
I=ISOLATOR / C=CIRCULATOR

Specifications	Full	Full	Full	Full	Full	Units
Frequency	225-400	225-400	250-400	250-400	250-450	MHz
Insertion loss	1.0	1.5	1.0	1.5	1.5	dB
Isolation	17	15	17	15	15	dB
VSWR	1.4:1	1.5:1	1.4:1	1.5:1	1.5:1	max
Power Fwd	100	100	25 or 50	25 or 50	50	Watts
Power Rev	1, 5, 10, 35 or 25, 40, 50 or 100	1, 5, 10, 35 or 25, 40, 50 or 100	25 or 50	25 or 50	50	Watts
Temperature	Room Temp	-10 to +60	Room Temp	-10 to +70	-10 to +60	°C
Connector	SMA or N-type	SMA or N-type	N-type	N-type	N-type	

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Specifications:	Full	Full	Full	Full	Full	Full	Units
Frequency	*225-400	225-400	225-400	225-400	225-400	225-400	MHz
Insertion loss	0.9	1.5	1.0	1.5	1.0	1.5	dB
Isolation	17	15	17	15	17	15	dB
VSWR	1.4:1	1.5:1	1.4:1	1.5:1	1.4:1	1.5:1	max
Power Fwd	100	100	100	100	20	20	Watts
Power Rev	20	20	20 or 30	20 or 30	20	20	Watts
Temperature	Room Temp	0 to +50	Room Temp	-10 to +70	Room Temp	0 to +60	°C
Connector	SMA	SMA	SMA	SMA	SMA	SMA	

***In 275-325MHz spec at 0.8/18/1.35**

Specifications:	Full	Full	Full	Full	Full	Full	Units
Frequency	225-400	225-400	225-400	225-400	240-440	240-440	MHz
Insertion loss	0.8	1.2	0.8	1.2	1.0	1.5	dB
Isolation	19	16	19	16	17	15	dB
VSWR	1.25:1	1.40:1	1.25:1	1.40:1	1.40:1	1.50:1	max
Power Fwd	1	1	50	50	20	20	Watts
Power Rev	1	1	25 Average	25 Average	20	20	Watts
Temperature	+25 to +35	-10 to +70	+25 to +35	-10 to +70	+25 to +35	0 to +50	°C
Connector	SMA	SMA	SMA	SMA	SMA	SMA	

Specifications:	Full	Full	Full	Full	Full	Full	Units
Frequency	225-400	225-400	225-400	225-400	225-400	225-400	MHz
Insertion loss	1.0	1.5	1.0	1.5	1.0	1.5	dB
Isolation	17	15	17	15	17	15	dB
VSWR	1.40:1	1.5:1	1.40:1	1.5:1	1.40:1	1.5:1	max
Power Fwd	100	100	40	40	1 or 100	1 or 100	Watts
Power Rev	1	1	40	40	1 or 100	1 or 100	Watts
Temperature	+25 to +35	-10 to +50	Room Temp	0 to +70	Room Temp.	-10 to +70	°C
Connector	SMA	SMA	SMA	SMA	SMA	SMA	

Specifications:	Full	Full	Full	Full	Full	Full	Full	Units
Frequency	225-400	225-400	225-400	225-400	225-400	225-400	225-400	MHz
Insertion loss	1.0	1.5	1.0	1.5	1.0	1.5	1.0	dB
Isolation	17	15	17	15	17	15	17	dB
VSWR	1.40:1	1.5:1	1.40:1	1.5:1	1.40:1	1.5:1	1.4:1	max
Power Fwd	100	100	25	25	100	100	2	Watts
Power Rev	100	100	25	25	50	50	2	Watts
Temperature	+25 to +35	-10 to +70	+25 to +35	-20 to +50	+25 to +35	-10 to +70	+18 to +23	°C
Connector	SMA	SMA	SMA	SMA	N-type	N-type	SMA	
External load	60x50x32				45.05x45.2x26.89			
Approximate Weight	800							

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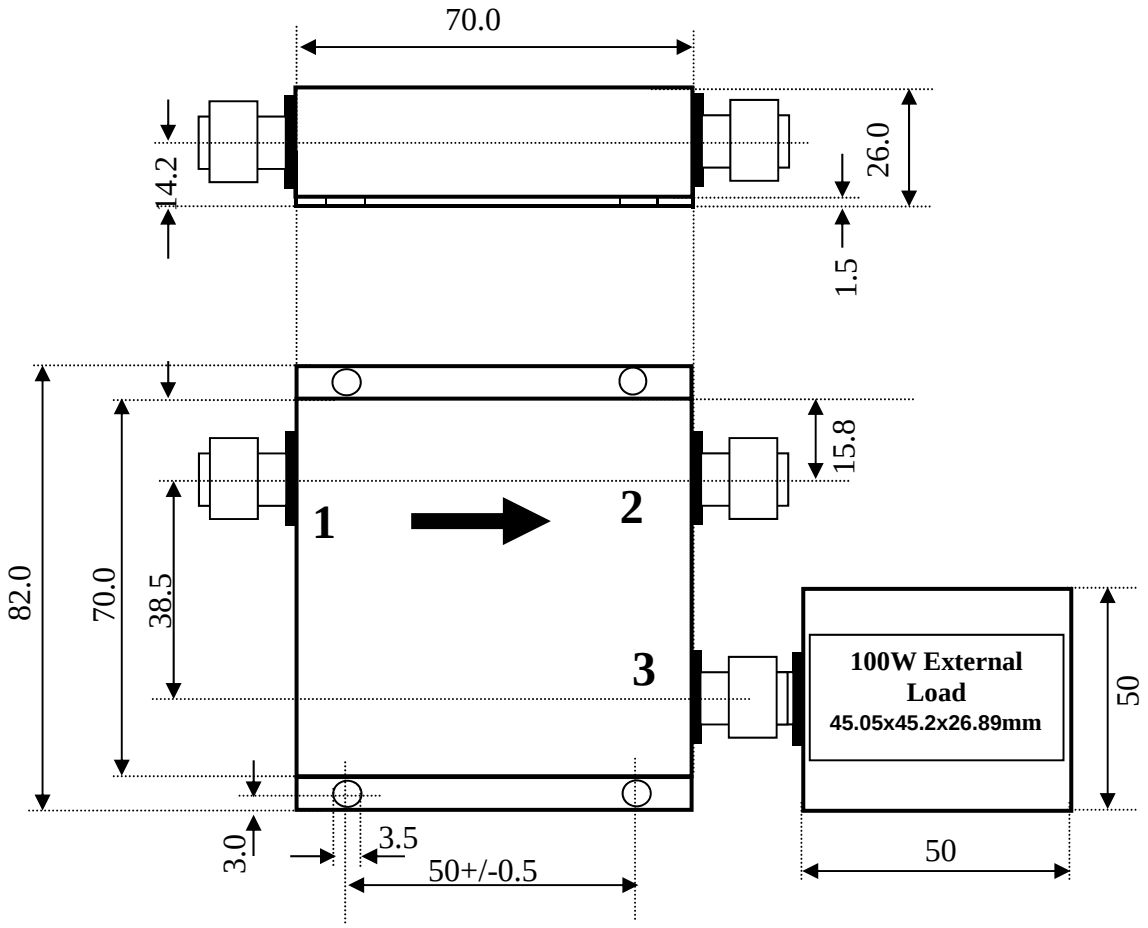
Specifications:	Full	Full	Full	Full	Full		Units
Frequency	225-400	225-400	254-410	254-410	254-450	254-450	MHz
Insertion loss	1.0	1.5	0.9	1.5	1.0	1.5	dB
Isolation	17	15	17	15	17	15	dB
VSWR	1.40:1	1.50:1	1.35:1	1.50:1	1.35:1	1.50:1	max
Power Fwd	2	2	50	50	50	50	Watts
Power Rev	2	2	50	50	50	50	Watts
Temperature	room	0 to +50	room	-10 to +60	room	-10 to +60	°C
Connector	SMA	SMA	SMA		SMA		
External load	72x82x25		72x82x25		72x82x25		mm



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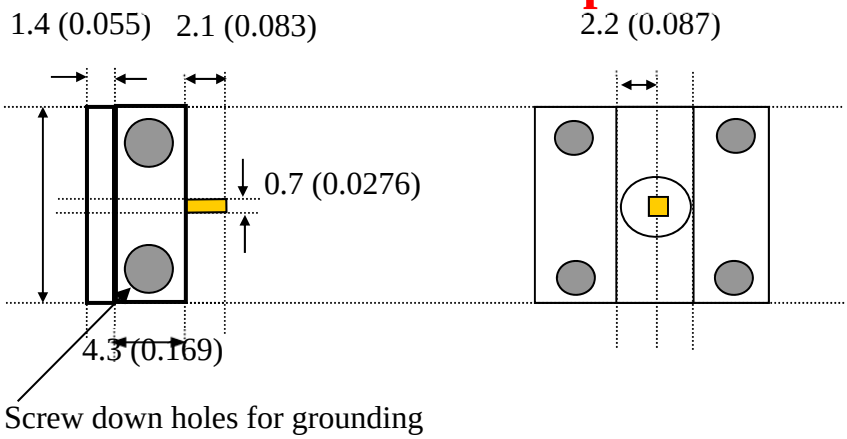
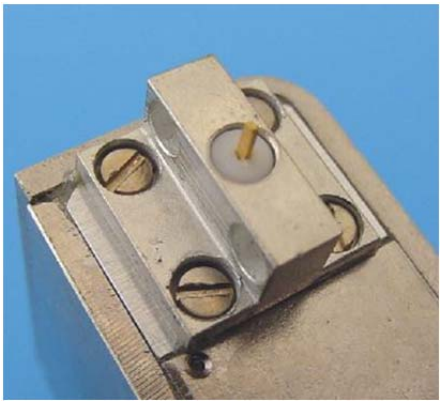
B4 Connector Option





Alternative connector option (B4), so unit can be used as a "drop in." Note the screw down holes must clamp the grounding surfaces together.

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