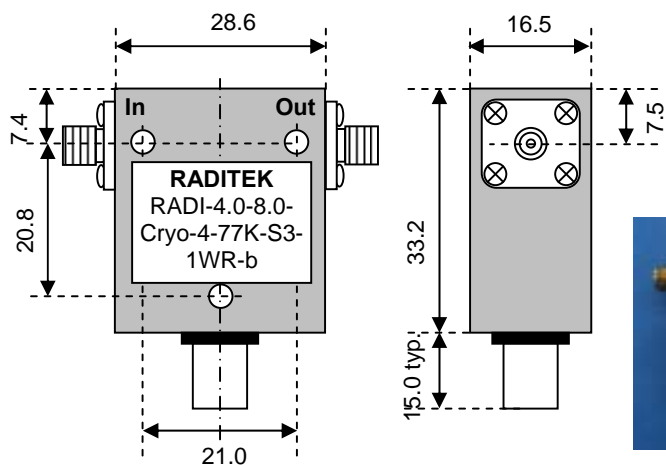


Coaxial Isolator or Circulator, 180°, 3.0-8.0 GHz, Full or Split Bands, Cryogenic 0.02-4°K or 4-77°K, SMA Connectors, 1 Watt

4-77°K operation (Isolator & Circulator)
0.02-4°K operation (for Circulator Only)



Tolerance Table Metric (inch)

(unless otherwise stated):

- Hole diameter +/- 0.1mm, (+/- 0.004")
- Dimensions (w*l*h) +/- 0.3 mm, (+/- 0.015")
- Dimensions (Coax Connector position) +/- 0.3mm, (+/- 0.012")
- Dimensions (hole position) +/- 0.1mm, (+/- 0.04")
- Machined surfaces**
- Flatness 0.025/mm, (0.001/ inch)
- Bend radius 0.8mm, (0.031" or 1/32")

**Units: mm
Not to scale**

Direction of RF:	
R	Default ▶
L	◀

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

Order Examples: **RADI-4.0-8.0-Cryo-4-77K-S3-1WR-b**
I=ISOLATOR / C=CIRCULATOR

Specifications:	4-77°K *	0.02-4°K Circulator only	0.02-4°K Circulator only MS- magnetic shielding	4-77°K *	Units
Frequency	3.0-8.0	4.0-8.0	4.0-8.0	4.0-8.0	GHz
Insertion loss	0.4	0.5	0.5	0.4	dB (maximum) typical
Isolation	18	17	17	18	dB (minimum)
VSWR	1.30:1	1.35:1	1.35:1	1.30:1	Maximum
Rated power (forward)	10	10	10	10	Watts (average)
Rated power (reverse)	1	1	1	1	Watts (average)
Operating temperature	4-77	0.02-4	0.02-4	4-77	°K
Non operating	-42 to 85	-42 to 85	-42 to 85	-42 to 85	°C
Dimensions	standard	standard	approx 43x48x31	standard	mm
Finish	Bright Nickel plated finish.				

*Devices can operate in external permanent magnetic field no more than 2 Gauss.

**Coaxial Isolator or Circulator, 180°, 3.0-8.0 GHz,
Full or Split Bands, Cryogenic 0.02-4°K or 4-77°K, SMA Connectors, 1 Watt**

Standard Specifications:	10-25°K or 10-25°mK		Units
Frequency	4-8		GHz
Insertion loss	0.6	0.5	dB (maximum) typical
Isolation	15	17	dB (minimum)
VSWR	1.55:1	1.35:1	Maximum
Rated power (forward)	1		Watts (average)
Rated power (reverse)	1		Watts (average)
Operating temperature	room	10-25	°K or °mK
Dimensions	standard		mm
Finish	Bright Nickel plated finish.		

Standard Specifications:	4-77°K		Units
Frequency	5.35-6.35		GHz
Insertion loss	0.4	0.4	dB (maximum) typical
Isolation	18	20	dB (minimum)
VSWR	1.30:1	1.25:1	Maximum
Rated power (forward)	10		Watts (average)
Rated power (reverse)	1		Watts (average)
Operating temperature	+25	4-77	°K
Dimensions	standard		mm
Finish	Bright Nickel plated finish.		