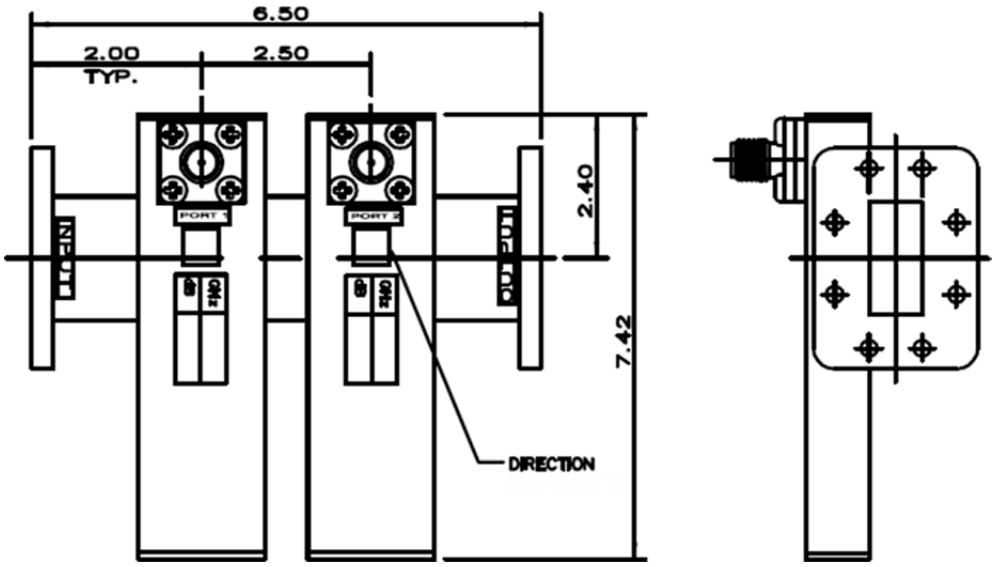
RADITEK INC.

RoHS COMPLIANT

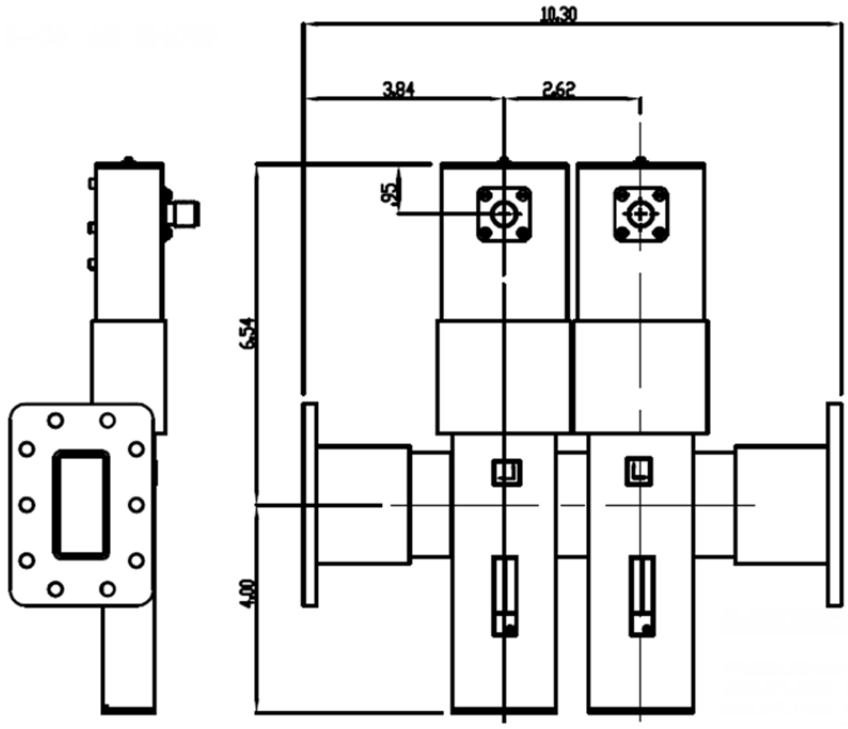
code-o4

Dual Directional Coupler, 3.3-4.8GHz

50dB Coupling Forward/ 40dB Coupling Reverse, WR229 Package, CMR 229 Flange, N-Female Connectors, 2 Kilo Watts CW, 20 Kilo Watts Peak Power



Units: Inch
Not to scale



MECHANICAL SPECIFICATIONS

WAVEGUIDE	:	WR229 (OFHC)
FLANGE	:	SEE PAGE 2
CONNECTOR	:	N TYPE M OR F
FINISHED OUTSIDE	:	FLAT BLACK

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 (Waveguide Slot Position),
+/- 0.1mm, (+/- 0.04")
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")

Order Examples: **RDDCPL-3.3-4.8-50d-WR229-Nf-2KW-CW-20KW-Pk-o4**
Description: *(Dual Directional Coupler, 3.3-4.8GHz, 50dB Coupling, WR229 package, N-Female connectors, 2 Kilo Watts CW, 20 Kilo Watts Peak Power)*

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Dual Directional Coupler, 3.3-4.8GHz

50dB Coupling Forward/ 40dB Coupling Reverse, WR229 Package, CMR 229 Flange, N-Female Connectors, 2 Kilo Watts CW, 20 Kilo Watts Peak Power

SPECIFICATION	
Frequency Range	**3.3 GHz to 4.8 GHz**
Coupling	(a) Forward : 50dB (b) Reverse : 40dB
Coupling Tolerance	+/- 1.5 dB , (+/- 1.0 dB desirable)
Frequency Sensitivity of Coupled port	+/- 0.7 dB , (+/- 0.5 dB desirable)
Directivity of Coupled Port	20 dB (Min.), (23 dB desirable)
Insertion Loss	< 0.3dB
VSWR	(a) Main Arm: 1.10:1 (Max.), (b) Coupled Ports: 1.25:1 (Max.)
Wave guide	WR 229
WG Port Flange	CMR 229
Material	Aluminum Alloy
Coupled Port Connector	N (Female), (Stainless steel, center Pin gold plated)
Termination (Fourth Port)	Built-in
Power Handling (Main Arm)	2 kW (CW), 20 kW (Peak): 4% Duty cycle, 1kHz PRF (min)
Finish Internal	Cromate / Alodine, (6 micron thickness, min)
External	Thermal paint/ Matt black
Environmental Specification	
Operating Temperature	0 to 50 °C
Humidity	95% RH at +40°C

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