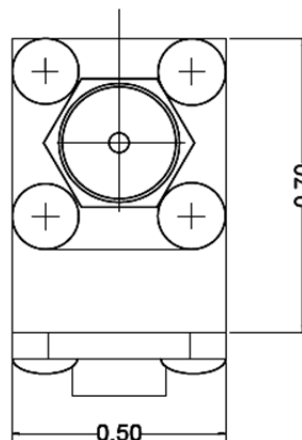
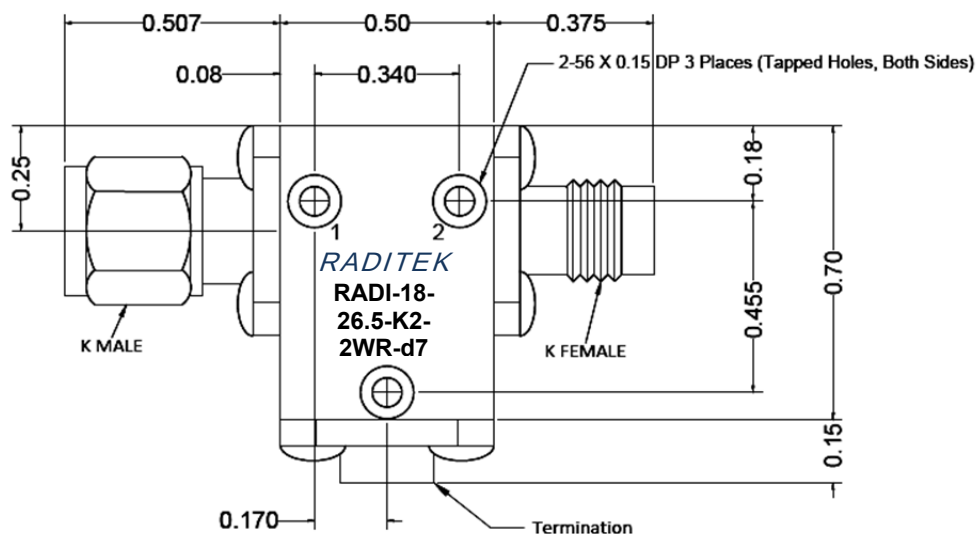


Coaxial Isolator or Circulator, 13.5-41 GHz, Split Bands K (2.9) mm or SMA Connector, 2 Watts



Units: inch
Not to scale

Isolator: 18.0-26.5GHz
with K(2.9)mm Connectors

Direction of RF:

R Default →
L ←

Order Examples: RADI-17.3-22.0-S3-2WR-d7

I=ISOLATOR C=CIRCULATOR

Material Specifications

Connectors	Passivated Stainless steel
Contact Pins	Beryllium Copper, gold plate

Standard Frequencies:

Specifications:	Isol	Isol	Isol	Circ			Units
Frequency	13-25	17.3-22.0	18-26.5	18.0-26.5			GHz
Insertion loss	0.5 max	0.5 max	0.8 max	0.8 max			dB
Isolation	15 min	20 min	18 min	18 min			dB
VSWR	1.50:1 max	1.25:1 max	1.40:1 max	1.40:1 max			
Power AVG Port(1-2)	10	10	10	10, 20			Watts
Power Reflective Term	2	1 or 2	2				Watt
Peak Power	30	30	30	30, 35			Watts
Connector	SMA	SMA or K	SMA or K	SMA			
Temperature range	-20 to +65	-20 to +65	-20 to +65	-20 to +65			°C
Weight	0.90	0.90	0.90	0.90			Ounces

SMA or K 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

Coaxial Isolator or Circulator, 13.5-41 GHz, Split Bands K (2.9) mm or SMA Connector, 2 Watts

Specifications:	Circ	Isol	Circ				Units
Frequency	18.5-30.0	18.0-40.0	18-40				GHz
Insertion loss	1.5 max	2.10	2.10				dB
Isolation	10 min	9	9				dB
VSWR	2.0:1 max	2.10:1	2.10:1				
Power AVG Port(1-2)	5	2, 5	5				Watts
Power Reflective Term		2					Watt
Peak Power	30	30	30				Watts
Connector	K	K	K				
Temperature range	-20 to +65	-20 to +65	0 to +85				°C
Weight	0.90 (K)	0.9	1.20				Ounces

Specifications:	Circ		Circ		Model –M1	Isol	Isol	Units
Frequency	25.2-27.2	26-40	26.5-40.0	26.5-40.0	26.5-40.0	26.5-40.0	26.5-40.0	GHz
Insertion loss	0.6	1.0	1.0	0.8 typ. 1.0 max	1.0 max	1.0 max	1.0 max	dB
Isolation	20	14	14	14 min 15 typ	16 min	14 min	14 min	dB
VSWR	1.25:1	1.50:1 max	1.50:1 max	1.45:1 typ 1.50:1 max	1.50 max	1.50 max	1.50 max	
Power AVG Port(1-2)	10	5	5	2	5 or 10	10	5	Watts
Power Reflective Term		2		2	2	2	2	Watt
Peak Power	30	30	30	30	30	30	30	Watts
In/Out Impedance	50	50	50	50	50	50	50	Ohms
Connector	K	K	K	K	K	K	K	
Temperature range	-20 to +65	-20 to +65	-20 to +65	-30 to +65	-20 to +65	-20 to +65	-20 to +65	°C
Weight	0.75	0.4	0.9	0.9	0.4	0.7	0.9	Ounces

Additional Sub-Frequencies

Specifications:	Isolator	Isolator	Circ	Isolator	Isol		Units
Frequency	17.5-21.5	17.5-22.5	17.2-31.5	17.7-26.5	19.35- 19.95	20.2-21.2	GHz
Insertion loss	0.6 max	0.5 max	1.5	0.8	0.5	0.4	dB
Isolation	20 min	20 min	9 min	18	22	22	dB
VSWR	1.25:1	1.25:1	2.10:1	1.40:1	1.25:1	1.20:1	
Power AVG Port(1-2)	2	10	5	10	10	10	Watts
Power Reflective Term	2	2		2	2	2	Watt
Peak Power	30	30	30	30	30	50	Watts
Connector	K	SMA	K	K	K	K	
Temperature range	-20 to +65	-20 to +65	-20 to +65	-20 to +65	20 to +65	-20 to +65	°C
Weight	0.9	0.9	0.75	0.70	0.40	0.74	Ounces

Coaxial Isolator or Circulator, 13.5-41 GHz, Split Bands K (2.9) mm or SMA Connector, 2 Watts

Specifications:	Isol	Iso	Circ	Cir	Circ	Circ	Units
Frequency	23.0-26.4	23-28	23.8-24.2	23-25	23.8-24.2	22-26	GHz
Insertion loss	0.6	0.8	0.4	0.6	0.4	0.5	dB
Isolation	20	18	22	18	22	20	dB
VSWR	1.25:1	1.30:1	1.20:1	1.30:1	1.20:1	1.25	
Power AVG Port(1-2)	10	5	10	15	10	10 (all ports)	Watts
Power Reflective Term	2	2				-	Watt
Peak Power	30	30	50	30	50	30	Watts
Connector	K	K	SMA(f)	K	SMA(f)	K	
Temperature range	-20 to +65	-20 to +65	-20 to +65	-20 to +65	-20 to +65	-20 to +65	°C
Weight	0.90	0.9	0.74	0.75	0.74	0.9	Ounces

Specifications:	Isol	Iso	Circ	Circ		Iso	Units
Frequency	24-27	24.5-27.5	24.25-26.25	24-41		25-27	GHz
Insertion loss	0.8	0.6	0.6	2.0		0.5	dB max
Isolation	18	20	20	10		20	dB min
VSWR	1.30:1	1.25:1	1.25:1	2.10		1.25:1	max
Power AVG Port(1-2)	10	5	2	1 or 5		5	Watts
Power Reflective Term	2	2	2	-		2	Watt
Peak Power	30	30	30	30		30	Watts
Connector	K	K	SMA	K		K	
Temperature range	-20 to +65	-20 to +65	-20 to +65	-20 to +65		-20 to +65	°C
Weight	0.4	0.9	0.9	0.9		0.9	Ounces

Specifications:	Iso	Circ	Circ	Isol (3070)	Isol	Isol -M1	Units
Frequency	24-32	24-40	24.0-28.0	24-26	24-26	24-26	GHz
Insertion loss	1.0	1.0	0.6	0.5	0.5	0.5	dB max
Isolation	17	14	20	20	20	25	dB min
VSWR	1.50:1	1.50:1	1.25:1	1.25:1	1.25:1	1.25:1	max
Power AVG Port(1-2)	5	5	10	10	10	10	Watts
Power Reflective Term	2	5		2	2	2	Watt
Peak Power	30	30	50	30	30	30	Watts
Connector	K	K	K(f)	K	K	K	
Temperature range	-20 to +65	-20 to +65	-20 to +65	-30 to +70	-20 to +65	-20 to +65	°C
Weight	0.4	0.9	0.74	0.9	0.9	0.9	Ounces

Specifications:	Iso	Iso		Isolator	Isolator		Units
Frequency	24.5-25.5	24.5-27.5	25.50-25.75	25.0-27.5	25.5-27.0		GHz
Insertion loss	0.5	0.5	0.60	0.6 max	0.5 max		dB max
Isolation	20	18	20	20	20		dB min
VSWR	1.25:1	1.30:1	1.25:1	1.25:1	1.25:1		max
Power AVG Port(1-2)	10	10	10	5	5		Watts
Power Reflective Term	2	2	2	2	2		Watt
Peak Power	30	30	30	30	30		Watts
Connector	SMA	K	K	K	K		
Temperature range	-20 to +65	-30 to +65	-20 to +65	-20 to +65	-20 to +65		°C
Weight	0.4	0.7	0.4	0.90	0.90		Ounces

Coaxial Isolator or Circulator, 13.5-41 GHz, Split Bands K (2.9) mm or SMA Connector, 2 Watts

Specifications:	Isolator	Isolator	Circ	Iso	Iso	Circ	Isol	Units
Frequency	26-28	25.0-27.5	26-29	26.0-29.0	26-40	26-40	26.5-32.0	GHz
Insertion loss	0.60	0.6 max	0.60	0.60	1.0	1.0	0.7	dB max
Isolation	20	18 min	20	20	14	14	20	dB min
VSWR	1.25:1	1.25:1	1.25:1	1.25:1	1.50:1	1.50:1	1.25:1	max
Power AVG Port(1-2)	5	5	5	5	5	5	10	Watts
Power Reflective Term	2	2		2	2		2	Watt
Peak Power	30	30	30	30	30	30	30	Watts
Connector	K	K	K	K	K	K	K	
Temperature range	-20 to +65	-20 to +65	-20 to +65	-20 to +65	-20 to +65	-20 to +65	-30 to +65	°C
Weight	0.4	0.40	0.9	0.9	0.4	0.9	0.7	Ounces

Specifications:	Isol	Isol	Isol	Circ	Circ	Isol	Isol	Units
Frequency	27-30	27-31	27-31	27-31	27.5-28.5	27.0-31.5	27.5-28.5	GHz
Insertion loss	0.60	0.60	0.60	0.60	0.60	0.80	0.60	dB max
Isolation	20	20	20	20	20	20	20	dB min
VSWR	1.25:1	1.25:1	1.25:1	1.25:1	1.25:1	1.25:1	1.25:1	max
Power AVG Port (1-2)	5	5	5	2 (all ports)	5	5	10	Watts
Power Reflective Term	2	2	2			2	2	Watt
Peak Power	30	30	30	30	30	30	30	Watts
Connector	K	K	K	K	K	K	K	
Temperature range	-20 to +65	-20 to +65	-30 to +65	-20 to +65	-20 to +65	-20 to +65	-20 to +65	°C
Weight	0.4	0.9		0.9			0.70	Ounces

Specifications:	Circ		Isol	Isol	Isol	Isol	Isol	Units
Frequency	27.0-29.5	29.0-40.0	29-31	29.5-31.5	29.75-31.25	29.75-31.25	30-31	GHz
Insertion loss	0.60	1.0	0.50	0.50	0.60	0.50	0.50	dB max
Isolation	20	14	20	20	20	20	20	dB min
VSWR	1.25:1	1.50:1	1.25:1	1.25:1	1.25:1	1.25:1	1.25:1	max
Power AVG Port (1-2)	1 or 10 (all ports)	5	10	5	10	5	5	Watts
Power Reflective Term	-	2	2	2	2	2	2	Watt
Peak Power	30	30	30	30	30	30	30	Watts
Connector	K	K	K	K	K	K	K	
Temperature range	-20 to +65	-40 to +70	-20 to +65	-20 to +65	-30 to +65	-20 to +65	-20 to +65	°C
Weight	0.9	0.9	0.4	0.4	0.7	0.4	0.9	Ounces

Specifications:		Circ	Circ	Isol	Circ	Isol	Units
Frequency	30-32	30-36	30-40	31-33	31-33	31-41	GHz
Insertion loss	1.0	0.7	1.0	0.6	0.6	1.0	dB max
Isolation	17	18	14	20	20	14	dB min
VSWR	1.35:1	1.30:1	1.50:1	1.25	1.25	1.50	max
Power AVG Port (1-2)	5	5 (all ports)	10	5	5	5	Watts
Power Reflective Term	2	-	2	2		2	Watt
Peak Power	30	30	30	30	30	30	Watts
Connector	K Male	K	K	K	K	K	
Temperature range	-20 to +65	-20 to +65	-20 to +65	-20 to +65	-20 to +65	-20 to +65	°C
Weight	0.4	0.9	0.7	0.4	0.9	0.4	Ounces

Coaxial Isolator or Circulator, 13.5-41 GHz, Split Bands K (2.9) mm or SMA Connector, 2 Watts

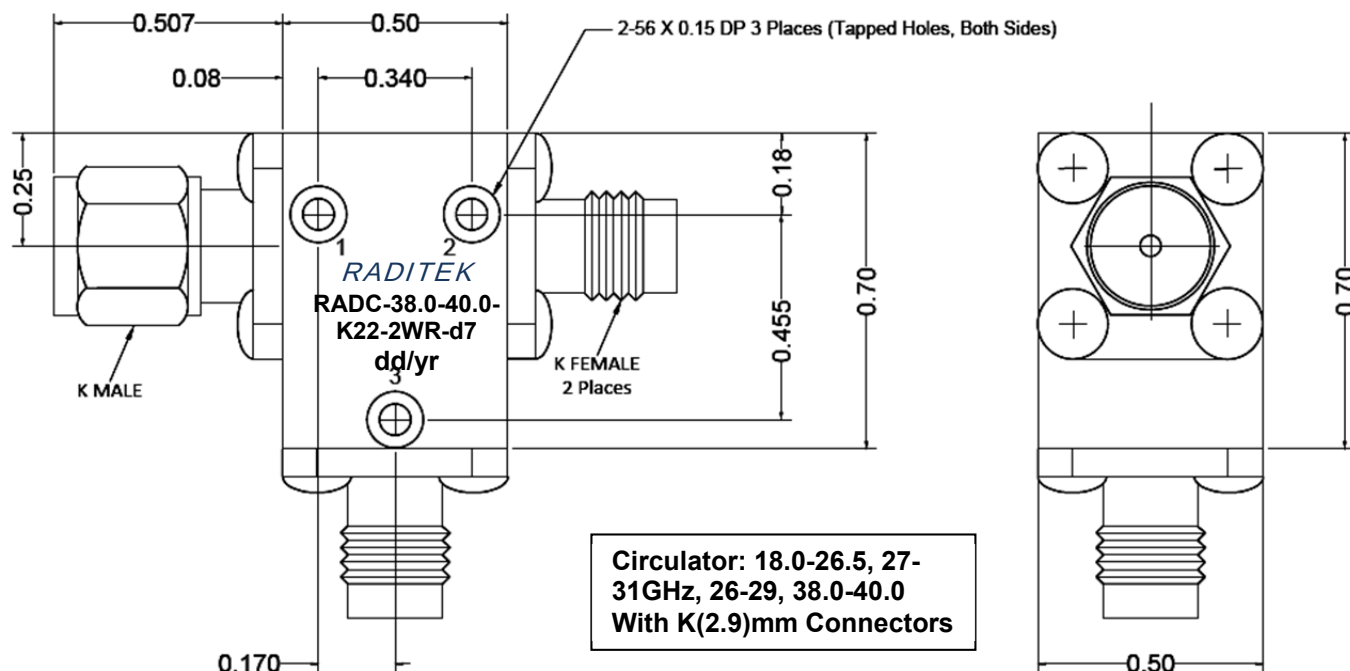
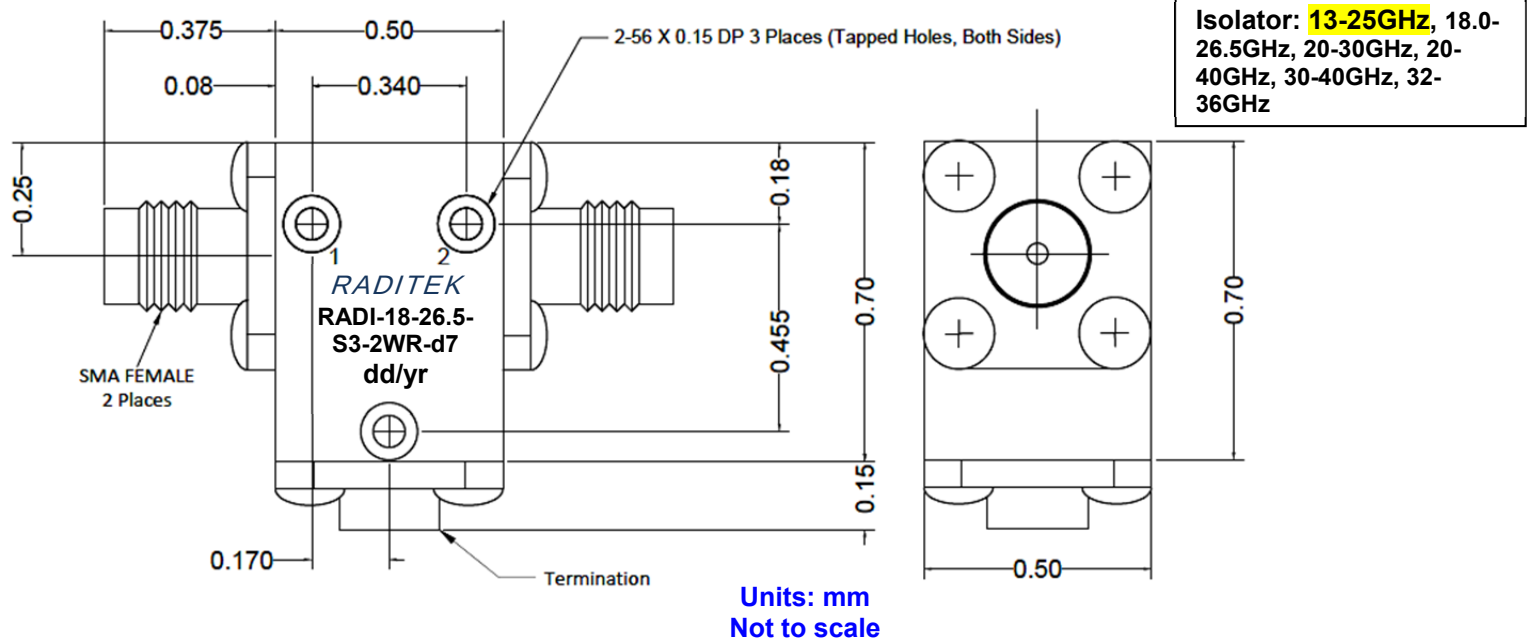
Specifications:	Circ	Circ	Isol	Isol	Circ (-4085)	circ	Units
Frequency	32-36	32-36	32-36	32-36	32-36	33-37	GHz
Insertion loss	0.7	0.7	0.7	0.7	0.7	0.7	dB max
Isolation	18	18	18	18	18	18	dB min
VSWR	1.25:1	1.30:1	1.30	1.25	1.45:1	1.25	max
Power AVG Port (1-2)	5 (all ports)	10	10	5	10	5	Watts
Power Reflective Term	-		2	2		-	Watt
Peak Power	30	30	30	30	30	30	Watts
Connector	K	K	K	K	K	K	
Temperature range	-20 to +65	-20 to +65	-20 to +65	-20 to +65	-40 to +85	-20 to +65	°C
Weight	0.9	0.75	0.7	0.9	0.75	0.9	Ounces

Specifications:	Isol	Isol	Circ	Circ	Isol	Isol	Units
Frequency	33-34	34-35	34-36	34-36	34-36	34-36	GHz
Insertion loss	0.6	0.6	0.6	0.5	0.5	0.8	dB max
Isolation	20	20	20	20	20	22	dB min
VSWR	1.25	1.25:1	1.25:1	1.22:1	1.22:1	1.25	max
Power AVG Port(1-2)	5	10	10	5 (all ports)	5	10	Watts
Power Reflective Term	2	2		-	2	2	Watt
Peak Power	30	30	30	30	30	30	Watts
Connector	K	K	K	K	K	K	
Temperature range	-20 to +65	-30 to +65	-20 to +65	-20 to +65	-20 to +65	-40 to +80	°C
Weight	0.7	0.7	0.75	0.90	0.90	0.7	Ounces

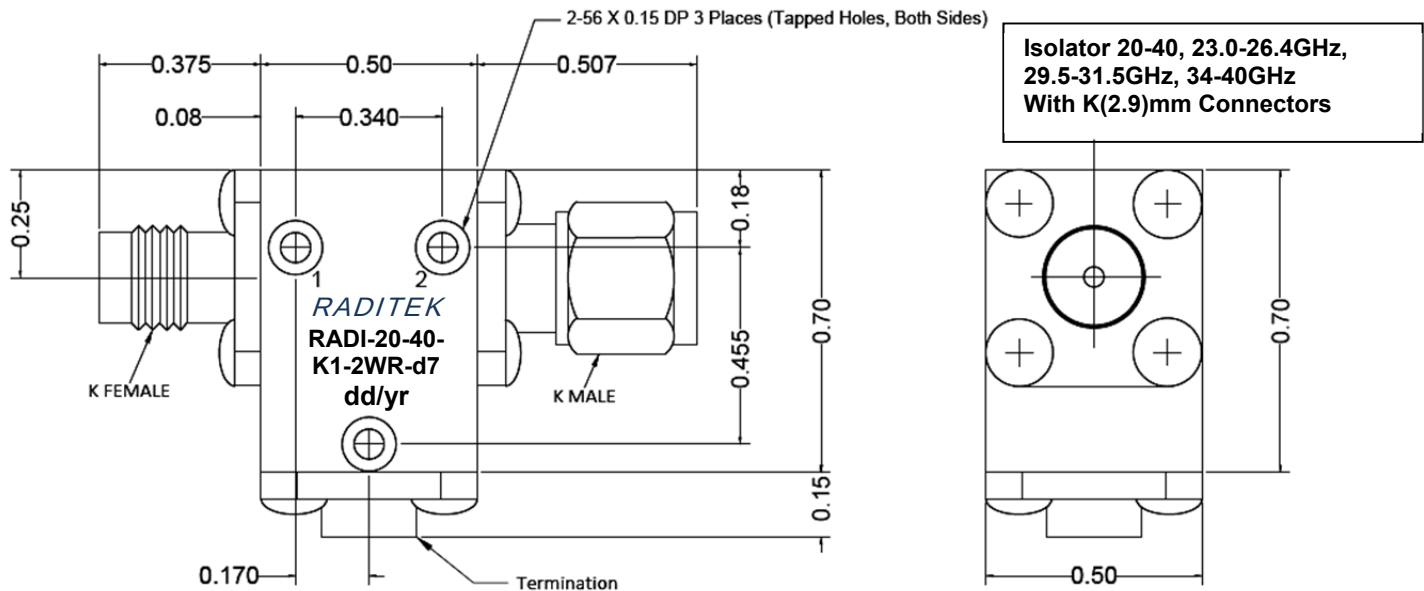
Specifications:	Isol	Circ	Circ	Isol	Isol	Circ	Units
Frequency	33-36	34-37	34-40	34-40	34.5-35.5	34.5-35.5	GHz
Insertion loss	0.70	0.70	1.0	0.7	0.70	0.6	dB max
Isolation	18	18	14	16	18	20	dB min
VSWR	1.25:1	1.35:1	1.50:1	1.35:1	1.30:1	1.25:1	max
Power AVG Port(1-2)	5	2	1, 10	5	10	10	Watts
Power Reflective Term	2	2		2	2		Watt
Peak Power	30	30	30	30	30	30	Watts
Connector	K	K	K	K	K	K	
Temperature range	-40 to +70	-20 to +65	-20 to +65	-20 to +65	-20 to +65	-20 to +65	°C
Weight	0.9	0.9	0.9	0.9	0.7	0.75	Ounces

Specifications:	Circ	Isol	Isol	Circ	Isol	Circ	Units
Frequency	35.3-36.2	37.5-38.5	37-39	37-40	37-40	38-40	GHz
Insertion loss	0.6	0.7	0.6	0.70	0.7	0.8	dB max
Isolation	20	20	20	18	18	15	dB min
VSWR	1.25:1	1.25:1	1.25	1.35:1	1.35:1	1.45:1	max
Power AVG Port(1-2)	10	5	5	2	5	5	Watts
Power Reflective Term		2	2	2	2	2	Watt
Peak Power	30	30	30	30	30	30	Watts
Connector	K	K	K	K	K	K	
Temperature range	-20 to +65	-20 to +65	-20 to +65	-20 to +65	-20 to +65	-20 to +65	°C
Weight	0.75	0.4	0.4	0.9	0.4	0.9	Ounces

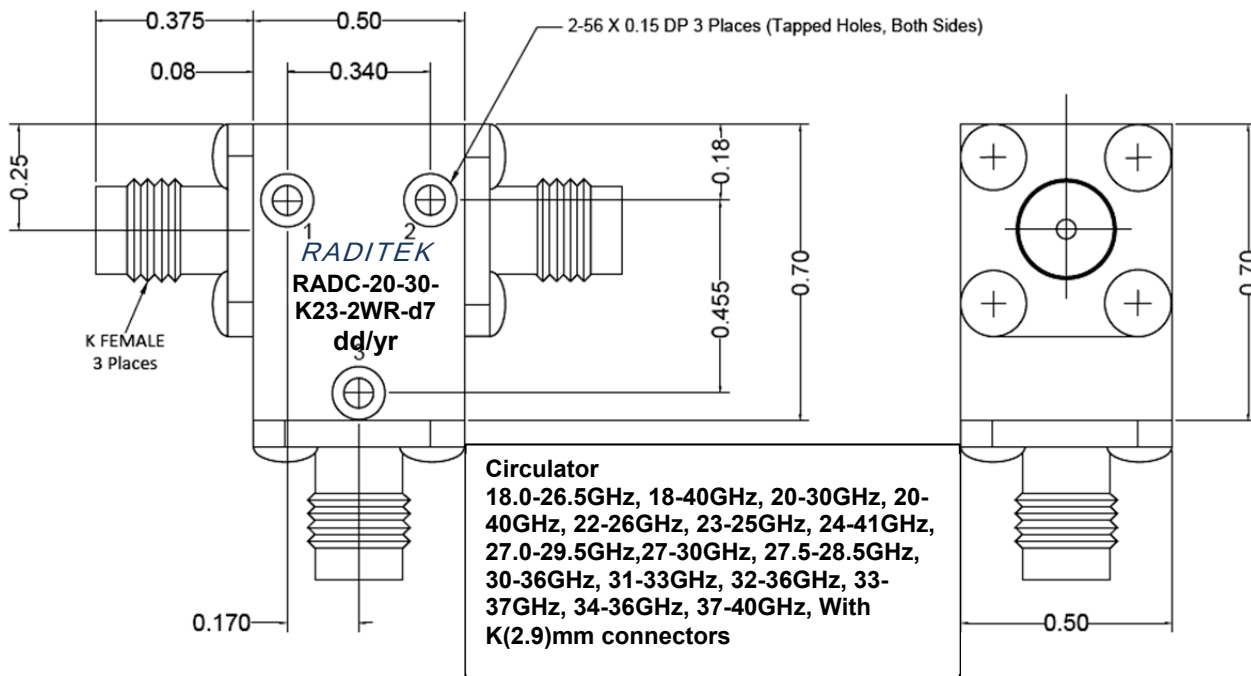
Coaxial Isolator or Circulator, 13.5-41 GHz, Split Bands K (2.9) mm or SMA Connector, 2 Watts



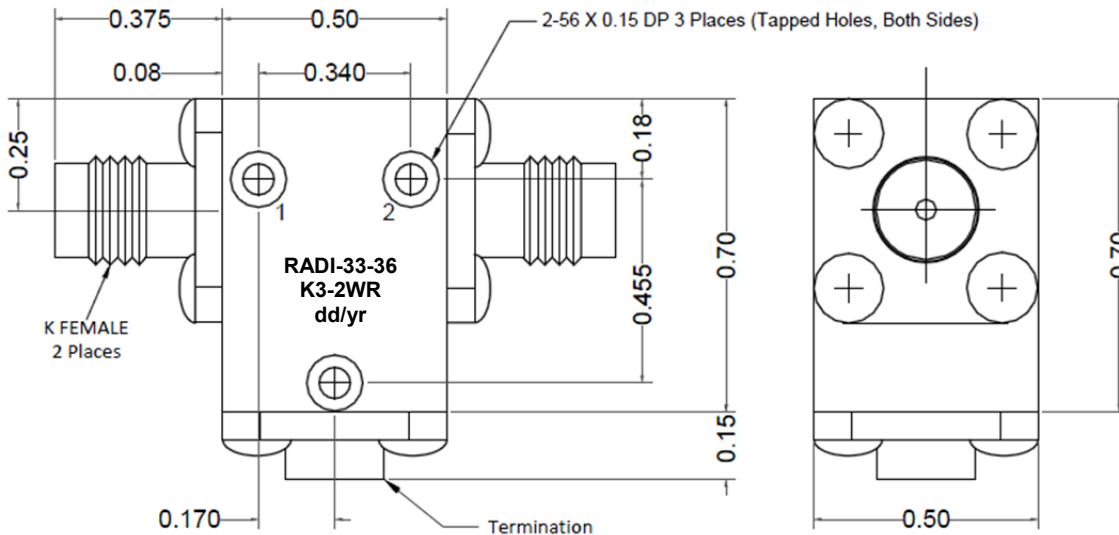
Coaxial Isolator or Circulator, 13.5-41 GHz, Split Bands K (2.9) mm or SMA Connector, 2 Watts



Units: mm
Not to scale



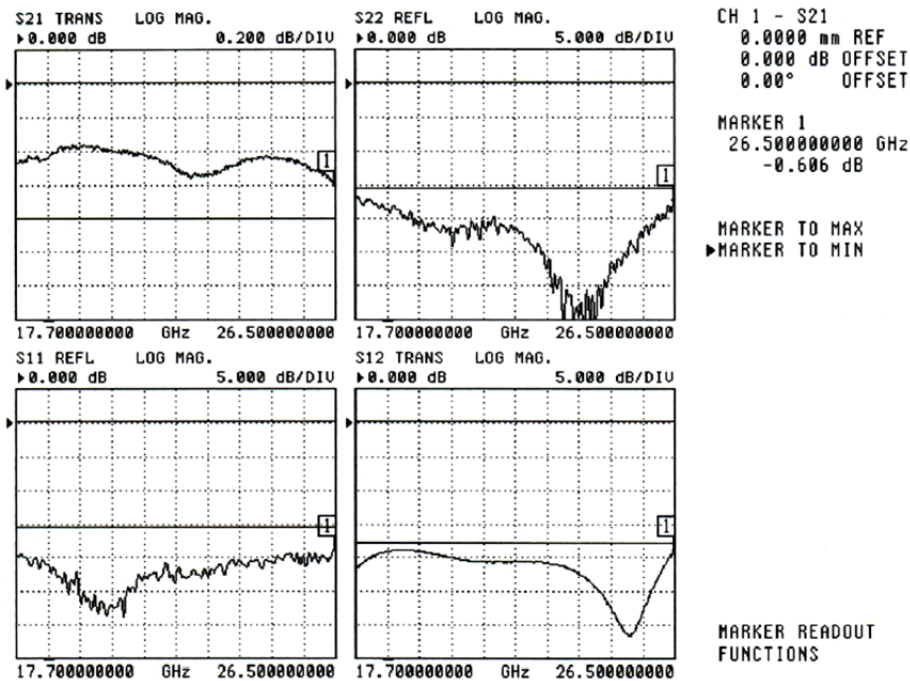
Coaxial Isolator or Circulator, 13.5-41 GHz, Split Bands K (2.9) mm or SMA Connector, 2 Watts



Isolator
17.3-22.0GHz, 20-30GHz, 27-31GHz,
29.5-31.5GHz, 30-31GHz, 32-36GHz,
34-36GHz, 37-40GHz, With K(2.9)mm

Coaxial Isolator or Circulator, 13.5-41 GHz, Split Bands K (2.9) mm or SMA Connector, 2 Watts

Plots for **RADI-17.7-26.5-K2-2WR-d7**



Test data for **RADI-27-31-K3-2WR-d7**

