UTE MICROWAVE, INC

Digital Catalog

Contact Len Nilson at:

UTE Microwave, Inc.
3500 Sunset Ave
Asbury Park, NJ 07712
Phone - 732.922.1009
Fax - 732.922.1848

www.utemicrowave.com

Broadband Units

Common Band Devices

Custom Design Devices

Flange Mount Drop-In

High Ratio Isolators

High-Power Communications

Multiport Circulators

TEM / Guide Isolators

High Power TV

Waveguide Junctions

Wireless / PCN

Terms and Warranty

BroadBand: Circulators | Isolators





Typical Specifications

Isolation:	18 dB min
Insertion Loss:	0.40 dB max
VSWR:	1.30 : 1 max
Load Rating:	1 Watt std
Connectors:	SMA or N Female standard Others on request

Circulators

	SMA (F) Connectors		N (F) Connectors	
Frequency Range (GHz)	**Housing Size (inches)**	**Model Number**	**Housing Size (inches)**	**Model Number**
1.00 - 2.00	2-1/4 x 2-1/4 x 1	CT-2004-O	2-1/4 x 2-1/4 x 1	CT-2003-N
1.25 - 2.50	1-7/8 1-7/8 x 1	CT-2008-O	1-7/8 x 1- 7/8 x 1	CT-2007-N
1.60 - 3.20	1-1/2 x 1-1/2 x 3/4	CT-3038-O	1-1/2 x 1-11/16 x 1	CT-3037-N
2.00 - 4.00	1-1/4 x 1-1/4 x 3/4	CT-3042-O	1-1/4 x 1-1/2 x 1	CT-3041-N
2.60 - 5.20	1-1/8 x 1-1/8 x 5/8	CT-3046-O	1-1/4 x 1-3/8 x 1	CT-3045-N
3.20 - 6.40	1 x 1 x 5/8	CT-4024-O	1-1/4 x 1-3/8 x 1	CT-4023-N
4.00 - 8.00	1 x 1 x 5/8	CT-4028-O	1-1/4 x 1-3/8 x 1	CT-4027-N
5.00 - 10.0	1 x 1 x 5/8	CT-4032-O	1 x 1-1/4 x 1	CT-4031-N
7.00 - 11.0	3/4 x 7/8 x 5/8	CT-5156-O	1 x 1-1/4 x 1	CT-5339-N
8.00 - 12.4	3/4 x 7/8 x 5/8	CT-5158-O	1 x 1-1/4 x 1	CT-5341-N
10.0 - 15.0	3/4 x 7/8 x 5/8	CT-5334-O		
12.4 - 18.0	3/4 x 7/8 x 5/8	CT-6101-O		

Isolators

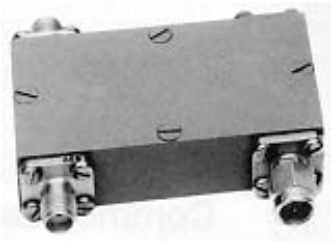
	SMA (F) Connectors		N (F) Connectors	
Frequency Range (GHz)	**Housing Size (inches)**	**Model Number**	**Housing Size (inches)**	**Model Number**
1.00 - 2.00	2-1/4 x 2-1/4 x 1	CT-2002-OT	2-1/4 x 2-1/4 x 1	CT-2001-NT
1.25 - 2.50	1-7/8 x 1-7/8 x 1	CT-2006-OT	1-7/8 x 1- 7/8 x 1	CT-2005-NT
1.60 - 3.20	1-1/2 x 1-1/2 x 3/4	CT-3036-OT	1-1/2 x 1-11/16 x 1	CT-3035-NT
2.00 - 4.00	1-1/4 x 1-1/4 x 3/4	CT-3040-OT	1-1/4 x 1-1/2 x 1	CT-3039-NT
2.60 - 5.20	1-1/8 x 1-1/8 x 5/8	CT-3044-OT	1-1/4 x 1-3/8 x 1	CT-3043-NT
3.20 - 6.40	1 x 1 x 5/8	CT-4022-OT	1-1/4 x 1-3/8 x 1	CT-4021-NT
4.00 - 8.00	1 x 1 x 5/8	CT-4026-OT	1-1/4 x 1-3/8 x 1	CT-4025-NT
5.00 - 10.0	1 x 1 x 5/8	CT-4030-OT	1 x 1-1/4 x 1	CT-4029-NT
7.00 - 11.0	3/4 x 7/8 x 5/8	CT-5155-OT	1 x 1-1/4 x 1	CT-5340-NT
8.00 - 12.4	3/4 x 7/8 x 5/8	CT-5157-OT	1 x 1-1/4 x 1	CT-5342-NT
10.0 - 15.0	3/4 x 7/8 x 5/8	CT-5335-OT		
12.4 - 18.0	3/4 x 7/8 x 5/8	CT-6102-OT		

Multiport Circulators: 4 Port "H" | 4 Port "Pi" | 5 Port

Where additional isolation is required, 2 or more junctions can be combined into a single package. Units are available in most frequency ranges - including octaves, most common connectors, etc. Typical units are listed below. Port 3 is terminated with a 1 Watt load.

4 Port Circulators "H"

- Typical frequency ranges and sizes are shown below.
- Port 3 is terminated with a 1 Watt load.



Typical Specifications

Isolation:	(2-1)	20 dB min
	(3-2)	40 dB min
Insertion Loss:	(1-2)	0.30 dB max
	(2-3)	0.60 dB max
VSWR:	(all ports)	1.25 : 1 max

Frequency Range (GHz)	Connectors Type	Size (inches)	Model Number
1.70 - 2.40	SMA	4-1/8 x 2-1/8 x 1	CH-3325-OT
1.70 - 2.40	N	4-1/8 x 2-1/8 x 1	CH-3325-NT
2.60 - 3.40	SMA	3-1/2 x 1-3/4 x 1	CH-3327-OT
2.60 - 3.40	N	3-1/2 x 1-3/4 x 1	CH-3327-NT
3.60 - 4.30	SMA	2 x 1 x 5/8	CH-4530-OT
4.30 - 5.10	SMA	2 x 1 x 5/8	CH-4531-OT
5.30 - 6.00	SMA	2 x 1 x 5/8	CH-4532-OT
5.80 - 6.50	SMA	2 x 1 x 5/8	CH-4533-OT
7.00 - 8.50	SMA	2 x 1 x 5/8	CH-5226-OT
8.40 - 9.70	SMA	1-5/8 x 3/4 x 5/8	CH-5227-OT
10.7 - 12.2	SMA	1-5/8 x 3/4 x 5/8	CH-5228-OT

Continue to 4 Port "Pi" and 5 Port

Multiport Circulators: 4 Port "H" | 4 Port "Pi" | 5 Port (continued)

4 Port Circulators "Pi"



Typical Specifications

Isolation:	(2-1)	20 dB min
	(3-2)	40 dB min
Insertion Loss:	(1-2)	0.30 dB max
	(2-3)	0.60 dB max
VSWR:	(all ports)	1.25 : 1 max

Frequency Range (GHz)	Connectors Type	Size (inches)	Model Number
1.70 - 2.40	SMA	3 x 1-1/2 x 3/4	CP-3051-OT
1.70 - 2.40	N	4 x 2-1/8 x 1	CP-3351-NT
2.60 - 3.40	SMA	2-1/2 x 1-1/4 x 3/4	CP-3052-OT
2.60 - 3.40	N	3-3/8 x 1-3/4 x 1	CP-3552-NT
3.60 - 4.30	SMA	2-1/4 x 1-1/8 x 5/8	CP-4057-OT
3.60 - 4.30	N	2-5/8 x 1-1/2 x 1	CP-4557-NT
4.30 - 5.10	SMA	2 x 1 x 5/8	CP-4577-OT
4.30 - 5.10	N	2-3/8 x 1-3/8 x 1	CP-4577-NT
5.80 - 6.50	SMA	2 x 1 x 5/8	CP-4578-OT
5.80 - 6.50	N	2-3/8 x 1-3/8 x 1	CP-4578-NT
7.00 - 8.50	SMA	2 x 1 x 5/8	CP-4579-OT
8.40 - 9.70	SMA	1-1/2 x 7/8 x 5/8	CP-5392-OT
9.50 - 10.7	SMA	1-1/2 x 7/8 x 5/8	CP-5393-OT
10.7 - 12.2	SMA	1-1/2 x 7/8 x 5/8	CP-5394-OT

5 Port Circulators

Available in most frequency ranges with Port 2 optimized for reactance amplifier application. Also 6 or 7 port variations and "Pi" configurations. Two ports are terminated with 1 Watt loads.



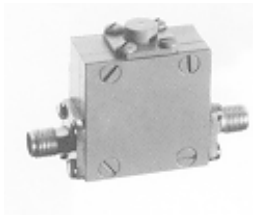
Typical Specifications

Isolation:	(2-1)	40 dB min
	(3-2)	40 dB min (2 integral terminations)
Insertion Loss:	(1-2)	0.60 dB max
	(2-3)	0.60 dB max
VSWR:	(all ports)	1.25 : 1 max

Frequency Range (GHz)	Connectors Type	Size (inches)	Model Number
1.70 - 2.40	SMA	5-3/8 x 2-1/8 x 1	CF-3326-OT
1.70 - 2.40	N	5-3/8 x 2-1/8 x 1	CF-3326-NT
2.60 - 3.40	SMA	4-1/2 x 2-9/16 x 1	CF-3328-OT
2.60 - 3.40	N	4-1/2 x 2-9/16 x 1	CF-3328-NT
3.60 - 4.30	SMA	2-3/4 x 1-1/2 x 5/8	CF-4534-OT
4.30 - 5.10	SMA	2-3/4 x 1-1/2 x 5/8	CF-4535-OT
5.30 - 6.00	SMA	2-3/4 x 1-1/2 x 5/8	CF-4536-OT
5.80 - 6.50	SMA	2-3/4 x 1-1/2 x 5/8	CF-4537-OT
7.00 - 8.50	SMA	2-3/4 x 1-1/2 x 5/8	CF-5229-OT
8.40 - 9.70	SMA	1-7/8 x 1-1/8 x 5/8	CF-5230-OT
10.7 - 12.2	SMA	1-7/8 x 1-1/8 x 5/8	CF-5231-OT

Common Band: Circulators | Isolators





Specifications

Isolation:	22 dB min
Insertion Loss:	0.30 dB max
VSWR:	1.20 : 1 max
Load Rating:	1 Watt std
Connectors:	SMA or N Female standard Others on request

Circulators

	SMA (F) Connectors		N (F) Connectors	
Frequency Range (GHz)	**Housing Size (inches)**	**Model Number**	**Housing Size (inches)**	**Model Number**
1.20 - 1.40	1-5/8 x 1-5/8 x 1	CT-2025-O	1-5/8 x 1- 5/8 x 1	CT-2027-N
1.40 - 1.70	1-7/8 x 1-7/8 x 1	CT-2011-O	1-7/8 x 1- 7/8 x 1	CT-2021-N
1.70 - 2.00	1-1/2 x 1-1/2 x 3/4	CT-2065-O	1-1/2 x 1-11/16 x 1	CT-2067-N
1.70 - 2.40	1-1/2 x 1-1/2 x 3/4	CT-3047-O	1-1/2 x 1-11/16 x 1	CT-3061-N
2.00 - 2.70	1-1/4 x 1-1/4 x 3/4	CT-3049-O	1-1/4 x 1-1/2 x 1	CT-3063-N
2.60 - 3.40	1-1/4 x 1-1/4 x 3/4	CT-3051-O	1-1/4 x 1-1/2 x 1	CT-3065-N
3.60 - 4.30	1 x 1 x 5/8	CT-4037-O	1 x 1-1/4 x 1	CT-4061-N
4.00 - 4.60	1 x 1 x 5/8	CT-4039-O	1 x 1-1/4 x 1	CT-4063-N
4.30 - 5.10	1 x 1 x 5/8	CT-4041-O	1 x 1-1/4 x 1	CT-4065-N
4.70 - 5.50	1 x 1 x 5/8	CT-4043-O	1 x 1-1/4 x 1	CT-4067-N
5.30 - 6.00	1 x 1 x 5/8	CT-4045-O	1 x 1-1/4 x 1	CT-4069-N
5.80 - 6.50	1 x 1 x 5/8	CT-4047-O	1 x 1-1/4 x 1	CT-4077-N
6.40 - 7.20	1 x 1 x 5/8	CT-4827-O	1 x 1-1/4 x 1	CT-4829-N
7.00 - 8.50	3/4 x 7/8 x 5/8	CT-5159-O	1 x 1-1/4 x 1	CT-5343-N
8.40 - 9.70	3/4 x 7/8 x 5/8	CT-5161-O	1 x 1-1/4 x 1	CT-5447-N
9.50 - 10.7	3/4 x 7/8 x 5/8	CT-5449-O	1 x 1-1/4 x 1	CT-5571-N
10.7 - 12.7	3/4 x 7/8 x 5/8	CT-5163-O	1 x 1-1/4 x 1	CT-5661-N
12.2 - 13.3	3/4 x 7/8 x 5/8	CT-5165-O		
12.6 - 14.0	3/4 x 7/8 x 5/8	CT-6105-O		
13.2 - 14.5	3/4 x 7/8 x 5/8	CT-6151-O		
14.0 - 15.5	3/4 x 7/8 x 5/8	CT-6107-O		
15.5 - 16.5	3/4 x 7/8 x 5/8	CT-6109-O		
16.5 - 17.7	3/4 x 7/8 x 5/8	CT-6338-O		
17.2 - 18.2	3/4 x 7/8 x 5/8	CT-6345-O		

Continue to Isolators

Common Band: Circulators | Isolators (Continued)

Isolators

	SMA (F) Connectors		N (F) Connectors	
Frequency Range (GHz)	Housing Size (inches)	Model Number	Housing Size (inches)	Model Number
1.20 - 1.40	1-5/8 x 1-5/8 x 1	CT-2026-OT	1-5/8 x 1- 5/8 x 1	CT-2028-NT
1.40 - 1.70	1-7/8 x 1-7/8 x 1	CT-2012-OT	1-7/8 x 1- 7/8 x 1	CT-2022-NT
1.70 - 2.00	1-1/2 x 1-1/2 x 3/4	CT-2066-OT	1-1/2 x 1-11/16 x 1	CT-2068-NT
1.70 - 2.40	1-1/2 x 1-1/2 x 3/4	CT-3048-OT	1-1/2 x 1-11/16 x 1	CT-3062-NT
2.00 - 2.70	1-1/4 x 1-1/4 x 3/4	CT-3050-OT	1-1/4 x 1-1/2 x 1	CT-3064-NT
2.60 - 3.40	1-1/4 x 1-1/4 x 3/4	CT-3052-OT	1-1/4 x 1-1/2 x 1	CT-3066-NT
3.60 - 4.30	1 x 1 x 5/8	CT-4038-OT	1 x 1-1/4 x 1	CT-4062-NT
4.00 - 4.60	1 x 1 x 5/8	CT-4040-OT	1 x 1-1/4 x 1	CT-4064-NT
4.30 - 5.10	1 x 1 x 5/8	CT-4042-OT	1 x 1-1/4 x 1	CT-4066-NT
4.70 - 5.50	1 x 1 x 5/8	CT-4044-OT	1 x 1-1/4 x 1	CT-4068-NT
5.30 - 6.00	1 x 1 x 5/8	CT-4046-OT	1 x 1-1/4 x 1	CT-4070-NT
5.80 - 6.50	1 x 1 x 5/8	CT-4048-OT	1 x 1-1/4 x 1	CT-4078-NT
6.40 - 7.20	1 x 1 x 5/8	CT-4828-OT	1 x 1-1/4 x 1	CT-4830-NT
7.00 - 8.50	3/4 x 7/8 x 5/8	CT-5160-OT	1 x 1-1/4 x 1	CT-5344-NT
8.40 - 9.70	3/4 x 7/8 x 5/8	CT-5162-OT	1 x 1-1/4 x 1	CT-5448-NT
9.50 - 10.7	3/4 x 7/8 x 5/8	CT-5450-OT	1 x 1-1/4 x 1	CT-5572-NT
10.7 - 12.7	3/4 x 7/8 x 5/8	CT-5164-OT	1 x 1-1/4 x 1	CT-5662-NT
12.2 - 13.3	3/4 x 7/8 x 5/8	CT-5166-OT		
12.6 - 14.0	3/4 x 7/8 x 5/8	CT-6106-OT		
13.2 - 14.5	3/4 x 7/8 x 5/8	CT-6152-OT		
14.0 - 15.5	3/4 x 7/8 x 5/8	CT-6108-OT		
15.5 - 16.5	3/4 x 7/8 x 5/8	CT-6110-OT		
16.5 - 17.7	3/4 x 7/8 x 5/8	CT-6340-OT		
17.2 - 18.2	3/4 x 7/8 x 5/8	CT-6344-OT		

Special Custom Designs:

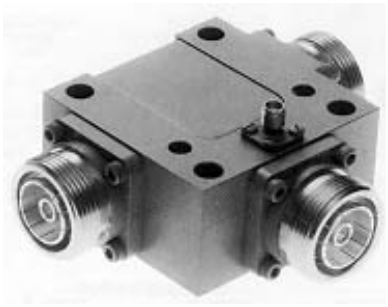
Shown here are a few examples of some special designs we have built for our customers. Submit your custom requirements to our Engineering Department for a solution.



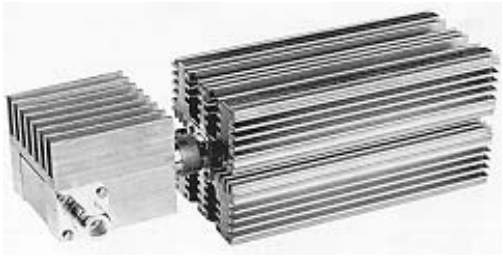
COMPACT 50 dB ISOLATOR
280 MHz
250 Watts CW
Load 75W



ISO FILTER
920 - 960 MHz
75 dB Isolation
500 Watt Avg. Power
Integral Loads and Reverse Power Monitor



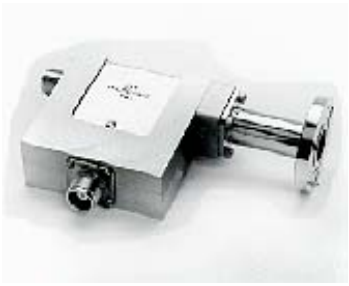
LOW-LOSS - HIGH POWER
2450 MHz Circulator
750 Watts CW
Din 7/16" Connectors



HIGH POWER ISOLATOR
920 - 960 MHz
100 Watt Load
Convection Cooling



SO-ADAPTER
CPR 284 to 7/16" Coax, Connector
250 Watts CW at 2450 MHz
Water Cooled Load - Reverse Power Monitor



HIGH POWER CIRCULATOR
735 - 920 MHz
75 kWatt peak 0.001 Duty Cycle
Conduction Cooling

High Power TV : Low Frequency | Common Bands

Four high performance units give coverage for the VHF Channels 7-13 and UHF TV Bands 470 - 860 MHz. Optimized for LOW LOSS, these circulators typically operate at 500 Watts cw, 900 Watts peak power level.

The units are designed for efficient heat transfer, however heat sinking must be adequate to transfer the internally dissipated power (from less than 25 Watts in the circulator to about 150 watts for the isolator absorbing rated reverse power.) The forward power rating may be raised by providing adequate heat sinking to keep the circulator body temperature within the rated temperature range of -10°C to + 70°C and will not be damaged by even greater temperature extremes (-30°C to + 90°C).

The isolator version has an integral 125 Watt loaded designed to provide a minimum of 20 dB isolation.



Typical Specifications

Isolation:	20 dB min
Insertion Loss:	0.25 dB max 0.12 dB typ
VSWR:	1.20 : 1 max
Temp. Range:	-10°C to + 70°C
Size:	2-3/4 x 2-15/16 x 1-1/4
Connectors:	N - Fe standard DIN 7/16 special order

Channels	Frequency	Circulator	Isolator	Size
7-10	174-200 MHZ	CT-1682-N		3.5x3.5x1.25
11-13	200-220 MHZ	CT-1683-N		
14 - 26	470 - 548 MHz	CT-1325-N	CT-1345-NT	
26 - 44	542 - 656 MHz	CT-1326-N	CT-1346-NT	
44 - 69	650 - 806 MHz	CT-1327-N	CT-1347-NT	
69 - 78	800 - 860 MHz	CT-1328-N	CT-1348-NT	

Low Frequency/Common Bands

These units cover most common frequency ranges at power levels of 100 Watts cw or average.
They are also available for any specific ranges you designate.



Typical Specifications

Isolation:	20 dB min
Insertion Loss:	0.40 dB max
VSWR:	1.25 : 1 max

	SMA (F) Connectors		N (F) Connectors		
Frequency Range (MHz)	Isolator Model No.	Circulator Model No.	Isolator Model No.	Circulator Model No.	Housing Size(inches)
340 - 365	CT-1230-OT	CT-1163-O	CT-1231-NT	CT-1161-N	3-1/2 x 3-1/2 x 1-1/4
400 - 450	CT-1130-OT	CT-1128-O	CT-1129-NT	CT-1126-N	2-1/2 x 2-1/2 x 1
450 - 515	CT-1249-OT	CT-1248-O	CT-1251-NT	CT-1250-N	2 x 2 x 1
470 - 560	CT-1253-OT	CT-1252-O	CT-1255-NT	CT-1254-N	2 x 2 x 1
560 - 675	CT-1257-OT	CT-1256-O	CT-1259-NT	CT-1258-N	2 x 2 x 1
670 - 810	CT-1261-OT	CT-1260-O	CT-1263-NT	CT-1262-N	2 x 2 x 1
755 - 985	CT-1057-OT	CT-1058-O	CT-1045-NT	CT-1046-N	2 x 2 x 1
800 - 960	CT-1059-OT	CT-1060-O	CT-1047-NT	CT-1048-N	1-5/8 x 1-5/8 x 1
960 - 1225	CT-1061-OT	CT-1062-O	CT-1247-NT	CT-1223-N	1-5/8 x 1-5/8 x 1

High cw or average power units are also available for your specific applications.

Flange Mount Drop-in:

These economical units give high performance in micro strip and stripline applications where space and cost are important.

They are ideal for both small and high volume applications such as cellular, PCS, and communications.



Typical Specifications

Isolation:	20 dB min
Insertion Loss:	0.50 dB max
VSWR:	1.25 : 1 max

Flange Mount:

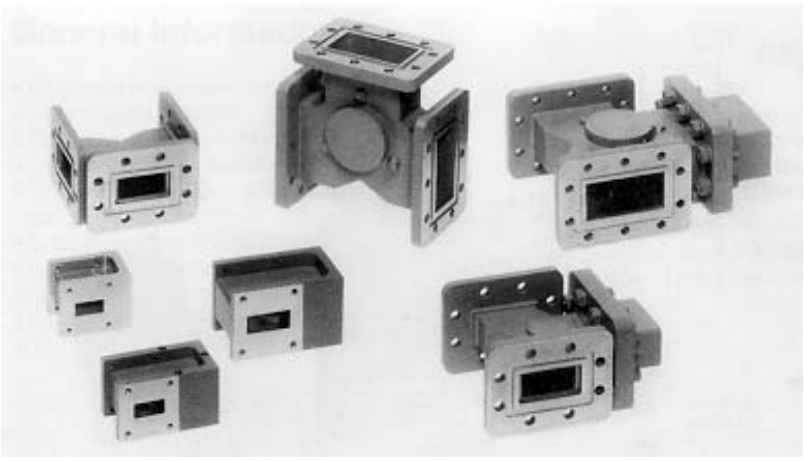
Isolators and Circulators

Frequency Range (GHz)	Mounting Size	Outline	Isolator Model Number	Circulator Model Number	Average Power Watts
0.810 - .845	1.00 x 1.25	B	CD-828-ST	CD-828-S	65
0.824 - .900	1.00 x 1.00	C	CD-862-ST	CD-862-S	5
0.860 - .900	1.00 x 1.25	B	CD-880-ST	CD-880-S	65
0.960 - 1.225	1.00 x 1.12	B-1	CD-1090-ST	CD-1090-S	10
1.020 - 1.100	1.00 x 1.00	C	CD-1060-ST	CD-1060-S	5
1.200 - 1.400	1.00 x 1.00	C	CD-1300-ST	CD-1300-S	5
1.400 - 1.600	0.75 x 0.75	D	CD-1500-ST	CD-1500-S	5
1.750 - 1.850	0.75 x 0.75	D	CD-1800-ST	CD-1800-S	5
2.000 - 2.300	0.75 x 0.75	D	CD-2150-ST	CD-2150-S	5
2.000 - 2.400	0.75 x 0.75	D	CD-2300-ST	CD-2300-S	5
2.300 - 2.700	0.75 x 0.75	D	CD-2450-ST	CD-2450-S	5
2.700 - 3.100	0.75 x 0.75	D	CD-2900-ST	CD-2900-S	5
3.100 - 3.500	0.75 x 0.75	D	CD-3300-ST	CD-3300-S	5
3.700 - 4.200	0.75 x 0.75	D	CD-3950-ST	CD-3950-S	5
4.000 - 4.400	0.50 x 0.58	G	CD-4200-ST	CD-4200-S	1
4.400 - 5.000	0.50 x 0.58	G	CD-4700-ST	CD-4700-S	1
5.400 - 5.900	0.50 x 0.58	G	CD-5650-ST	CD-5650-S	1
5.900 - 6.400	0.50 x 0.58	G	CD-6150-ST	CD-6150-S	1
6.400 - 7.200	0.50 x 0.58	G	CD-6800-ST	CD-6800-S	1
7.200 - 8.400	0.50 x 0.58	G	CD-7800-ST	CD-7800-S	1
8.500 - 9.600	0.35 x 0.48	I	CD-9050-ST	CD-9050-S	1
9.500 - 10.70	0.35 x 0.48	I	CD-10100-ST	CD-10100-S	1
10.70 - 12.70	0.35 x 0.48	I	CD-11700-ST	CD-11700-S	1
12.20 - 13.30	0.25 x 0.50	J	CD-12750-ST	CD-12750-S	1

Waveguide Junctions :

Standard units are available as circulators or isolators.

Other commonly used frequency ranges also are available. Special frequencies, W/G sizes or flanges available as custom designs. Most units are aluminum, however, some items are supplied in copper alloy.



Typical Specifications

Isolation:	26 dB min
Insertion Loss:	0.15 dB max
VSWR:	1.10 : 1 max

Frequency Range (GHz)	Waveguide WR ( )	Flange Type	Circulator Model Number	Isolator Model Number
3.62 - 4.20	229	CPR-(G)	CWT-4907-W	CWT-4916-WT
5.85 - 6.45	159	CPR-(G)	CWT-4918-W	CWT-4917-WT
5.85 - 6.45	137	CPR-(G)	CWT-4873-W	CWT-4876-WT
5.85 - 6.45	137	CMR	CWT-4806-W	CWT-4804-WT
6.40 - 7.20	159	CPR-(G)	CWT-4878-W	CWT-4877-WT
6.40 - 7.20	159	CMR	CWT-4730-W	CWT-4729-WT
6.40 - 7.20	137	CPR-(G)	CWT-4926-W	CWT-4838-WT
6.40 - 7.20	137	CMR	CWT-4705-W	CWT-4707-WT
7.90 - 8.40	112	UG	CWT-5586-W	CWT-5597-WT
8.50 - 9.60	90	UG	CWT-5713-W	CWT-5634-WT
10.7 - 11.7	90	UG	CWT-5604-W	CWT-5598-WT
10.7 - 11.7	75	SQUARE	CWT-5756-W	CWT-5600-WT
10.7 - 12.7	75	SQUARE	CWT-5707-W	CWT-5706-WT
11.7 - 12.7	75	SQUARE	CWT-5757-W	CWT-5599-WT
12.2 - 13.3	75	SQUARE	CWT-5758-W	CWT-5601-WT
14.0 - 14.5	75	SQUARE	CWT-6348-W	CWT-6396-WT
14.0 - 14.5	62	UG	CWT-6334-W	CWT-6296-WT
17.3 - 18.1	62	UG	CWT-6341-W	CWT-6339-WT

High Ratio Isolators: Common Band | Broadband

Common Band

Frequency Range (GHz)	Isolation (dB)	Ins. Loss (dB)	Connector Type	Size (inches)	Model Number
1.70 - 2.40	40	0.75	N	4 x 2-1/8 x 1	CP-3329-NT
1.70 - 2.40	40	0.75	SMA	3 x 1-1/2 x 3/4	CP-3039-OT
2.60 - 3.40	40	0.70	N	3-3/8 x 1-3/4 x 1	CP-3330-NT
2.60 - 3.40	40	0.70	SMA	2-1/2 x 1-1/4 x 3/4	CP-3032-OT
3.60 - 4.30	40	0.70	N	2-5/8 x 1-1/2 x 1	CP-4503-NT
3.60 - 4.30	40	0.70	SMA	2-1/4 x 1-1/8 x 5/8	CP-4038-OT
4.30 - 5.10	40	0.70	N	2-3/8 x 1-3/8 x 1	CP-4529-NT
4.30 - 5.10	40	0.70	SMA	2 x 1 x 5/8	CP-4039-OT
5.80 - 6.50	40	0.60	N	2-3/8 x 1-3/8 x 1	CP-4551-NT
5.80 - 6.50	40	0.60	SMA	2 x 1 x 5/8	CP-4040-OT
5.80 - 6.50	60	0.80	SMA	3 x 1 x 5/8	CF-4647-OT
8.40 - 9.70	40	0.60	SMA	1-1/2 x 7/8 x 5/8	CP-5232-OT
8.40 - 9.70	60	0.80	SMA	2-1/4 x 7/8 x 5/8	CF-5233-OT
10.7 - 12.7	40	0.60	SMA	1-1/2 x 7/8 x 5/8	CP-5446-OT
12.2 - 13.3	40	0.60	SMA	1-1/2 x 7/8 x 5/8	CP-6353-OT
14.0 - 14.5	40	0.60	SMA	1-1/2 x 7/8 x 5/8	CP-6391-OT
16.5 - 17.5	40	0.60	SMA	1-1/2 x 7/8 x 5/8	CP-6320-OT
17.2 - 18.2	40	0.60	SMA	1-1/2 x 7/8 x 5/8	CP-6426-OT



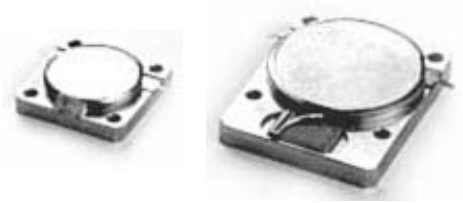
- Female connectors are standard.
- Other combinations are available on special order.
- Termination ratings are 1 Watt std.
- Higher powers available on special order.

Broadband

Frequency Range (GHz)	Isolation (dB)	Ins. Loss (dB)	Connector Type	Size (inches)	Model Number
2.00 - 4.00	40	0.80	N	3-3/8 x 1-3/4 x 1	CP-3378-NT
2.00 - 4.00	35	0.75	SMA	2-1/2 x 1-1/4 x 3/4	CP-3094-OT
4.00 - 8.00	40	0.80	N	2-3/8 x 1-3/8 x 1	CP-4597-NT
4.00 - 8.00	35	0.75	SMA	2 x 1 x 5/8	CP-4070-OT
7.00 - 11.0	40	0.80	SMA	1-1/2 x 7/8 x 5/8	CP-5436-OT
8.00 - 12.4	40	0.80	SMA	1-1/2 x 7/8 x 5/8	CP-5416-OT
10.0 - 15.0	35	0.80	SMA	1-1/2 x 7/8 x 5/8	CP-6260-OT
12.4 - 18.0	35	0.80	SMA	1-1/2 x 7/8 x 5/8	CP-6262-OT

Wireless/PCN : Drop-in | Coaxial | High Power 500 Watt

UTE Microwave offers a complete line of circulators and isolators for applications at all the wireless and PCN frequencies. In addition, our devices cover the power spectrum from "milliwatts to many Watts".



Typical Specifications

Isolation:	20 dB min
Insertion Loss:	0.50 dB max
VSWR:	1.25 : 1 max

Drop-in

Frequency Range (MHz)	Isolator Model Number	Circulator Model Number
824 - 849 862 - 890 900 - 930	CD-836-ST CD-881-ST CD-915-ST	CD-836-S CD-881-S CD-915-S
1700 - 1800 1800 - 1950 2400 - 2483	CD-1750-ST CD-1875-ST CD-2442-ST	CD-1750-S CD-1875-S CD-2442-S
5725 - 5850	CD-5787-ST	CD-5787-S

Click here for more details

Coaxial

Frequency Range (MHz)	Low Power Model Number	Medium Power Model Number
824 - 849 862 - 890 900 - 930	CT-1358-OT CT-1359-OT CT-1360-OT	CT-1368-OT CT-1369-OT CT-1370-OT
1800 - 1950 2000 - 2700	CT-2381-OT CT-3050-OT	CT-2382-OT CT-3753-OT

SMA connectors. Other types available.



Typical Specifications

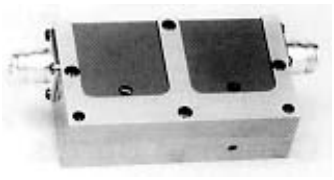
Isolation:	20 dB min
Insertion Loss:	0.30 dB max
VSWR:	1.25 : 1 max

High Power 500 Watt

Frequency Range (MHz)	Circulators Model Number
850 - 890 860 - 960	CT-1361-N CT-1362-N
1900 - 2100 2450	CT-2383-N CT-3695-N

High-Power Communications: Industrial | Medical | Cellular | Paging

To meet the needs of increased power levels used in current cellular, paging, TV and medical equipment - the following typical units are listed. Consult us with your exact requirements.





Communication Bands

Model Number	Frequency Range (MHz)	POWER (Watts) cw	ISOL (dB) min	LOSS (dB) max	VSWR (: 1) max	Size (inches)
CT-1237-N	270 - 290	150	23	0.25	1.20	3-1/2 x 3-5/8 x 1-1/4
CP-1244-NT(1)	270 - 290	250	50	0.50	1.20	3-3/8 x 4-1/2 x 1-1/2
CT-1204-N	420 - 450	150	23	0.25	1.20	2 x 2 x 1
CP-1205-NT(1)	420 - 450	250	50	0.50	1.20	2 x 4 x 1
CT-1181-N	820 - 900	100	23	0.25	1.25	1-5/8 x 1-5/8 x 1
CT-1182-N	860 - 900	500	23	0.25	1.20	2-1/8 x 2-1/4 x 1-1/4
CT-1183-N	860 - 900	1000	20	0.25	1.25	2-3/4 x 2-15/16 x 1-1/4

(1) - Integral power loads.

Industrial and Medical

Model Number	Frequency Range (MHz)	POWER (Watts) cw	ISOL (dB) min	LOSS (dB) max	VSWR (: 1) max	Size (inches)
CT-1103-N	915	100	23	0.25	1.10	1-5/8 x 1-1/58 x 1
CT-1125-N	915	500	25	0.25	1.10	2 x 2 x 1
CT-1245-N	915	750	25	0.25	1.10	2-1/8 x 2-1/4 x 1-1/4
CT-1246-N	915	1000	25	0.25	1.10	2-1/8 x 2-1/4 x 1-1/4
CT-3826-N	2450	100	25	0.25	1.10	1-3/4 x 1-3/4 x 1
CT-3695-N	2450	500	25	0.25	1.10	2-1/2 x 2-1/2 x 1-5/16
CT-3664-D(1)	2450	1000	25	0.25	1.10	2-3/4 x 2-15/16 x 1-1/4
CWT-3711ST(1,2)	2450	500	25	0.25	1.10	(TEM / Guide)
CWT-3712-NT(2)	2450	500	25	0.25	1.10	(TEM / Guide)

(1) - DIN 7/16 Coax connectors

(2) - CPR - 284 Input 100 Watt watercooled load..

UTE Microwave produces a broad range of ferrite devices for use in military, commercial, medical and scientific applications. Over 35 years experience in this field gives us a breadth of knowledge we can apply to your requirements.

Terms

Net 30, FOB Asbury Park, NJ for approved accounts. Shipments are by UPS Ground unless otherwise directed and authorized.

Export order payment will be by Letter of Credit, Bank Draft or check drawn on a U.S. commercial bank. Freight and insurance charges are collect on delivery.

We accept VISA and MasterCard orders.

Warranty

Our products are warranted to the original purchaser to be free of defects in material and workmanship for 1 year from date of original shipment. This obligation is limited to repair or replacement at our option. Returns must be authorized by the factory and returned by pre-paid transportation.

In keeping with our policy to improve our products, we reserve the right to change specifications without notice.