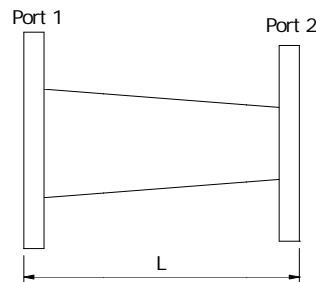
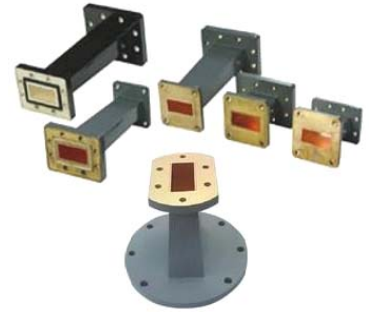


## 4 Waveguide Transition

Vector Telecom manufactures a wide variety of waveguide transitions ranging from standard rectangular waveguide transitions in overlapping bands to custom transitions spanning multiple bands. Additional sizes, extended range, and custom design configurations are available on request.



### 4.1 Waveguide Transitions in Overlapping Bands

#### 【Specifications】

Model No*	Freq Range (GHz)	VSWR (Max)	Length (mm)	Port 1 WG Type		Port 2 WG Type		Flange	Material
				IEC	EIA	IEC	EIA		
VT34WA...	0.35-0.49	1.10	1000	R3	WR230	R4	WR210	FDP/FDM	Al
VT45WA...	0.41-0.53	1.10	1000	R4	WR210	R5	WR180	FDP/FDM	Al
VT56WA...	0.49-0.62	1.10	900	R5	WR180	R6	WR150	FDP/FDM	Al
VT68WA...	0.64-0.75	1.10	800	R6	WR150	R8	WR110	FDP/FDM	Al
VT89WA...	0.75-0.98	1.10	600	R8	WR110	R9	WR975	FDP/FDM	Al
VT912WA...	0.96-1.15	1.15	200	R9	WR975	R12	WR770	FDP	Al
VT1214WA...	1.13-1.46	1.15	200	R12	WR770	R14	WR650	FDP	Al
VT1418WA...	1.45-1.73	1.15	200	R14	WR650	R18	WR510	FDP	Al
VT1822WA...	1.72-2.20	1.10	200	R18	WR510	R22	WR430	FDP	Al
VT2226WA...	2.17-2.61	1.10	200	R22	WR430	R26	WR340	FDP	Al
VT2632WA...	2.60-3.30	1.10	200	R26	WR340	R32	WR284	FDP	Al
VT3240WA...	3.22-3.95	1.10	200	R32	WR284	R40	WR229	FDP	Al
VT4048WA...	3.94-4.90	1.10	200	R40	WR229	R48	WR187	FDP	Al
VT4858WA...	4.64-5.99	1.10	200	R48	WR187	R58	WR159	FDP	Al
VT5870WA...	5.38-7.05	1.10	150	R58	WR159	R70	WR137	FDP	Al
VT7084WA...	6.57-8.17	1.10	100	R70	WR137	R84	WR112	FDP/FBP	Cu
VT84100WA...	8.20-9.99	1.10	60	R84	WR112	R100	WR90	FBP	Cu
VT100120WA...	9.84-12.4	1.10	60	R100	WR90	R120	WR75	FBP	Cu

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## Waveguide Transition



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Model No*	Freq Range (GHz)	VSWR (Max)	Length (mm)	Port 1 WG Type		Port 2 WG Type		Flange	Material
				IEC	EIA	IEC	EIA		
VT120140WA...	11.9-15.0	1.10	50	R10	WR75	R140	WR62	FBP	Cu
VT140180WA...	14.5-18.0	1.10	50	R10	WR62	R180	WR51	FBP	Cu
VT180220WA...	17.6-22.0	1.10	50	R10	WR51	R220	WR42	FBP	Cu
VT220260WA...	21.7-26.7	1.10	50	R220	WR42	R260	WR34	FBP	Cu
VT260320WA...	26.5-33.0	1.10	50	R260	WR34	R320	WR28	FBP	Cu
VT320400WA...	32.9-40.0	1.15	50	R320	WR28	R400	WR22	FBP/FUGP	Cu
VT400500WA...	39.2-50.1	1.15	50	R400	WR22	R500	WR19	FUGP	Cu
VT500620WA...	49.8-59.6	1.15	50	R500	WR19	R620	WR15	FUGP	Cu
VT620740WA...	60.5-75.8	1.15	50	R620	WR15	R740	WR12	FUGP	Cu
VT740900WA...	73.8-91.9	1.15	50	R740	WR12	R900	WR10	FUGP	Cu
VT9001200WA..	92.2-110	-	30	R900	WR10	R120	WR8	FUGP	Cu
VT1200140W...	113-140	-	30	R1200	WR8	R140	WR7	FUGP	Cu
VT14001800W...	145-173	-	30	R1400	WR7	R180	WR5	FUGP	Cu
VT18002200W...	172-220	-	30	R1800	WR5	R220	WR4	FUGP	Cu
VT22002600W...	217-261	-	30	R2200	WR4	R260	WR3	FUGP	Cu

\*Indicates Model Number. See Ordering Information for complete part number.

## 4.2 Waveguide Transitions in Non Overlapping Bands

### 【Specifications】

Model No*	Freq Range (GHz)	Port 1 WG Type		Port 2 WG Type		Flange	Material
		IEC	EIA	IEC	EIA		
VT2240WA...	3.22-4.90	R22	WR430	R40	WR229	FDP	Al
VT2658WA...	4.64-7.05	R26	WR340	R58	WR159	FDP	Al
VT3270WA...	5.38-8.17	R32	WR284	R70	WR137	FDP	Al
VT4084WA...	6.57-9.99	R40	WR229	R84	WR112	FDP/FBP	Al
VT48100WA...	8.20-12.4	R48	WR187	R100	WR90	FDP/FBP	Al
VT58120WA...	9.84-15.0	R58	WR159	R120	WR75	FDP/FBP	Al
VT70140WA...	11.9-18.0	R70	WR137	R140	WR62	FDP/FBP	Al
VT84180WA...	14.5-22.0	R84	WR112	R180	WR51	FBP	Cu
VT100220WA...	17.6-26.7	R100	WR90	R220	WR42	FBP	Cu
VT120260WA...	21.7-33.0	R120	WR75	R260	WR34	FBP	Cu
VT140320WA...	26.5-40.0	R140	WR62	R320	WR28	FBP	Cu

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## Waveguide Transition



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Model No*	Freq Range (GHz)	Port 1 WG Type		Port 2 WG Type		Flange	Material
		IEC	EIA	IEC	EIA		
VT180400WA...	32.9-50.1	R180	WR51	R400	WR22	FBP/ FUGP	Cu
VT220500WA...	39.2-59.6	R220	WR42	R500	WR19	FBP/ FUGP	Cu
VT260620WA...	49.8-75.8	R260	WR34	R620	WR15	FBP/ FUGP	Cu
VT320740WA...	60.5-91.9	R320	WR28	R740	WR12	FBP/ FUGP	Cu
VT400900WA...	73.8-110	R400	WR22	R900	WR10	FUGP	Cu

\*Indicates Model Number. See Ordering Information for complete part number.

### 【Ordering Information】

**Example Part No:** VT 84100 WA 100 P M A

Vector Telecom ————

WG Type: R84 to R100 ————

Product Type: WG Transition ————

————— A=Aluminum C=Copper

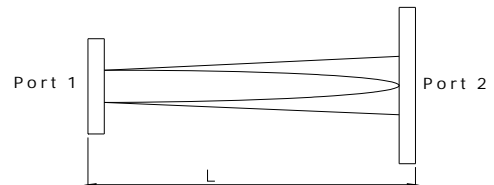
————— Flange 2 Type: M=FBM100

————— Flange 1 Type: P=FBP84

————— WG Length: L=100mm

- Flange type: Multiple types available - see VT Flanges page
- Finish: Corrosion protection plus black top coat

### 4.3 Rectangular To Circular Waveguide Transition (TE10-TE11)



### 【Specifications】

Model No*	Freq Range (GHz)	VSWR (Max)	Length (mm)	WG Type		Inner Diameter of Circular Waveguide (mm)	Material
				IEC	EIA		
VT14RCA...	1.30-1.70	1.10	920	R14	WR650	157	Al
VT18RCA...	1.76-2.20	1.10	820	R18	WR510	114.58	Al
VT22RCA...	2.07-2.61	1.10	580	R22	WR430	97.87	Al
VT26RCA...	2.42-3.30	1.10	500	R26	WR340	83.62	Al
VT32RCA...	2.83-3.88	1.10	420	R32	WR284	71.42	Al
VT40RCA...	3.22-4.90	1.10	350	R40	WR229	51.99	Al
VT48RCA...	3.94-5.33	1.10	300	R48	WR187	44.45	Al
VT58RCA...	5.3-7.05	1.10	230	R58	WR159	38.10	Al

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## Waveguide Transition



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Model No*	Freq Range (GHz)	VSWR (Max)	Length (mm)	WG Type		Inner Diameter of Circular Waveguide (mm)	Material
				IEC	EIA		
VT70RCA...	6.21-8.17	1.10	200	R70	WR137	32.54	Al
VT84RCA...	7.30-9.97	1.10	200	R84	WR112	27.79	Al
VT100RCA...	8.50-11.6	1.10	160	R100	WR90	23.83	Cu
VT120RCA...	11.6-15.0	1.10	130	R120	WR75	17.42	Cu
VT140RCA...	13.4-18.0	1.10	100	R140	WR62	15.09	Cu
VT180RCA...	15.9-21.8	1.15	100	R180	WR51	12.70	Cu
VT220RCA...	21.2-26.7	1.15	60	R220	WR42	9.53	Cu
VT260RCA...	24.3-33.0	1.15	60	R260	WR34	8.33	Cu
VT320RCA...	31.8-40	1.15	50	R320	WR28	7.14	Cu
VT400RCA...	36.4-49.8	1.15	50	R400	WR22	5.56	Cu
VT500RCA...	46.3-59.6	1.15	40	R500	WR19	4.37	Cu
VT620RCA...	56.6-75.8	1.15	30	R620	WR15	3.58	Cu
VT740RCA...	63.5-87.2	1.15	30	R740	WR12	3.18	Cu
VT900RCA...	84.8-112	1.15	20	R900	WR10	2.39	Cu

\*Indicates Model Number. See Ordering Information for complete part number.

### 【Ordering Information】

**Example Part No:** VT 100 RCA 20 A

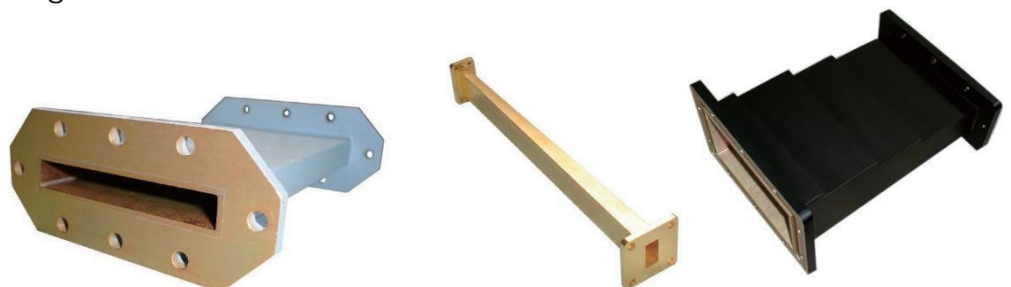
Vector Telecom ——— |  
 WG Type: R100 ——— |  
 Product Type: Rectangular to  
 Circular WG Transition ——— |

A=Aluminum C=Copper  
 Circular WG Diameter: R=20mm

- Flange type: Multiple types available - see VT Flanges page
- Finish: Corrosion protection plus black top coat

### 4.4 Special Transitions

Transitions spanning multiple bands, rectangular to circular waveguide transitions are available. Please consult sales engineer for more information.



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## Waveguide Transition



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