

# Power Dividers/Combiners,

## SMA Models See Also: [Coax Type-N Power Dividers](#) [Waveguide Combiners & Dividers](#)

ATM manufactures a wide variety of 2 Way, 4 Way, and 8 Way Power Dividers/Combiners to meet or exceed your design specifications. Please call us with your requirements and discuss your needs with one of our design engineers.

### 2-Way SMA Models

• Octave Band • Special Band • Multi Band • 10-40GHz Multi Band • Ultra-Wide Band



- Stripline Construction
- Compact & Lightweight
- Most popular models in stock for fast delivery
- Octave Band, Special Band, Multi Band and Ultra Wide-Band models available

#### Electrical

**RF Connectors:** SMA(F)

**RF Power:** 30 Watt with all ports matched

#### Mechanical

**Construction:** Stripline design

**Connectors:** Stainless Steel

**Operating Temp:** -55°C to +110°C

**Finish:** Unique corrosion resistant 316 stainless steel epoxy coating IAW MIL-F-14072

#### Applicable Mil-Specs

**General:** see [ATM Mil-Spec](#) reference

**Product Specific:** see [ATM Mil-Spec](#) reference

## SMA Octave Band

### 2-Way Models

Freq GHz	Iso. dB	VSWR max.		IL dB	Amp Bal (+/- dB)	Phase Bal (+/- Deg)	Model No.	Outline Drawing
		In	Out					
<b>0.5 - 1.0</b>	22	1.25	1.15	0.40	0.2	2.0	P212	<a href="#">Fig 1</a>
<b>1.0 - 2.0</b>	20	1.25	1.15	0.35	0.2	2.0	P213	<a href="#">Fig 2</a>
<b>2.0 - 4.0</b>	20	1.30	1.20	0.40	0.2	2.0	P214	<a href="#">Fig 3</a>
<b>4.0 - 8.0</b>	20	1.35	1.25	0.50	0.2	2.0	P215	<a href="#">Fig 3</a>
<b>8.0 - 12.4</b>	20	1.35	1.30	0.50	0.2	2.0	P216	<a href="#">Fig 4</a>
<b>12.0 - 18.0</b>	19	1.40	1.35	0.60	0.3	6.0	P217	<a href="#">Fig 4</a>
<b>14.0 - 21.0</b>	15	1.70	1.70	0.60	0.2	8.0	P218	<a href="#">Dwg</a>

# SMA Special Band

## 2-Way Models

Freq (GHz)	Iso. (dB)	VSWR max.		IL (dB)	Amp Bal (+/- dB)	Phase Bal (+/- Deg)	Model No.	Outline Drawing
		In	Out					
<b>0.85 - 1.65</b>	22	1.25	1.20	0.40	0.2	2.0	P213L	<a href="#">Fig 2</a>
<b>3.4 - 4.2</b>	20	1.35	1.25	0.50	0.2	2.0	P215C3	<a href="#">Fig 3</a>
<b>3.65 - 6.5</b>	20	1.35	1.25	0.40	0.2	2.0	P215C	<a href="#">Fig 3</a>
<b>3.65 - 4.3</b>	22	1.25	1.20	0.40	0.2	2.0	P215C1	<a href="#">Fig 3</a>
<b>5.85 - 6.5</b>	22	1.25	1.20	0.40	0.2	2.0	P215C2	<a href="#">Fig 3</a>
<b>5.8 - 6.8</b>	22	1.25	1.20	0.40	0.2	2.0	P215C4	<a href="#">Fig 3</a>
<b>7.2 - 8.4</b>	20	1.35	1.30	0.50	0.2	2.0	P215X	<a href="#">Fig 3</a>
<b>7.2 - 8.4</b>	20	1.35	1.30	0.50	0.2	2.0	P215X-1	<a href="#">Fig 6</a>
<b>7.2 - 7.75</b>	20	1.30	1.30	0.50	0.2	2.0	P215X1	<a href="#">Fig 3</a>
<b>7.2 - 7.75</b>	20	1.30	1.30	0.50	0.2	2.0	P215X1-1	<a href="#">Fig 6</a>
<b>7.9 - 8.4</b>	20	1.30	1.30	0.50	0.2	2.0	P215X2	<a href="#">Fig 3</a>
<b>7.9 - 8.4</b>	20	1.30	1.30	0.50	0.2	2.0	P215X2-1	<a href="#">Fig 6</a>
<b>10.7 - 12.7</b>	18	1.45	1.40	0.60	0.2	2.0	P216X	<a href="#">Fig 4</a>
<b>10.7 - 12.7</b>	20	1.40	1.35	0.60	0.2	2.0	P216X-1	<a href="#">Fig 7</a>
<b>10.7 - 14.5</b>	19	1.40	1.35	0.70	0.2	2.0	P216K	<a href="#">Fig 4</a>
<b>10.7 - 14.5</b>	19	1.40	1.35	0.70	0.2	2.0	P216K-1	<a href="#">Fig 7</a>
<b>12.7 - 14.5</b>	19	1.40	1.35	0.70	0.3	6.0	P217K	<a href="#">Fig 4</a>
<b>13.7 - 14.5</b>	20	1.40	1.35	0.60	0.3	6.0	P217K-1	<a href="#">Fig 7</a>

## SMA Multi Band

### 2-Way Models

Freq (GHz)	Iso. (dB)	VSWR max.		IL (dB)	Amp Bal (+/- dB)	Phase Bal (+/- Deg)	Model No.	Outline Drawing
		In	Out					
<b>0.5 - 4.0</b>	20	1.30	1.20	0.50	0.2	4.0	P212E	<a href="#">Fig 9</a>
<b>0.8 - 2.4</b>	20	1.35	1.25	0.35	0.2	2.0	P212D	<a href="#">Fig 2</a>
<b>1.0 - 18.0</b>	18	1.40	1.40	1.00	0.2	5.0	P213H	<a href="#">Fig 8</a>
<b>2.0 - 8.0</b>	20	1.35	1.35	0.40	0.2	4.0	P214F	<a href="#">Fig 5</a>
<b>2.0 - 18.0</b>	18	1.40	1.40	1.00	0.2	5.0	P214H	<a href="#">Fig 8</a>
<b>5.0 - 18.0</b>	19	1.40	1.35	0.50	0.3	6.0	P215CK	<a href="#">Fig 7</a>
<b>6.0 - 18.0</b>	19	1.40	1.35	0.60	0.2	5.0	P215H	<a href="#">Fig 10</a>
<b>8.0 - 18.0</b>	20	1.35	1.40	0.60	0.2	5.0	P216H	<a href="#">Fig 10</a>
<b>2.0 - 26.5</b>	19	1.40	1.35	1.10	0.3	6.0	P2K8*	<a href="#">Fig 11</a>

\*Specs for this model run from 2.0-18.0 GHz From 18.0-26.5 GHz unit runs ISO 12dB, VSWR 1.7 in/1.6 out, and IL 1.8 dB max. See also [P214JT](#) for another model in this band.

## Special 10.0 - 40.0 GHz Multi-Band Unit

### 2-Way Models



Model No.	Freq (GHz)	Iso. (dB)	VSWR max		IL (dB)	Amp Bal (+/- dB)	Phase Bal (+/- Deg)	Outline Drawing
			In	Out				
P2K9	<b>10.0 - 18.0</b>	20	1.5	1.5	0.6	0.3	2.5	<a href="#">Dwg</a>
	<b>18.0 - 26.5</b>	17	1.7	1.7	0.9	0.5	3.0	
	<b>26.5 - 40.0</b>	14	1.9	1.9	1.6	0.8	6.0	
<b>NEW</b> P2K9A	<b>10.0 - 18.0</b>	18	1.6	1.5	1.5	0.6	6.0	<a href="#">Dwg</a>
	<b>18.0 - 40.0</b>	18	1.6	1.5	2.1	0.6	6.0	

# SMA Ultra Wide Band

## 2-Way Models



Model No.	Freq (GHz)	Iso. (dB)	VSWR max		IL (dB)	Phase Balance (deg max.)	Amplitude Balance (dB max)	Input Power (W max)	Outline Drawing
			In	Out					
P213HT	0.5 - 1.0	6	2.00	2.00	0.70	1.0	0.20	10	<a href="#">Fig 1</a>
	1.0 - 1.5	10	1.70	1.50	0.50	1.0	0.20	10	
	1.5 - 2.0	15	1.60	1.40	0.50	1.0	0.20	10	
	2.0 - 4.0	20	1.50	1.30	0.40	1.0	0.20	10	
	4.0 - 8.0	17	1.50	1.40	0.50	1.5	0.20	10	
	8.0 - 15.0	15	1.70	1.50	0.80	2.0	0.30	10	
	15.0 - 16.0	15	1.70	1.60	0.80	3.0	0.30	10	
	16.0 - 18.0	14	1.80	1.90	0.90	4.0	0.40	10	
18.0 - 20.0	7	2.00	2.00	1.10	4.0	0.40	10		
P214JT	2.0 - 2.5	15	1.50	1.20	0.30	2.0	0.30	10	<a href="#">Fig 2</a>
	2.5 - 20.0	20	1.30	1.30	1.00	4.0	0.40	10	
	20.0 - 26.5	15	1.50	1.50	1.50	6.0	0.40	10	

## 4-Way SMA Models

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### Electrical

**RF Connectors:** SMA(F)

**RF Power:** 30 Watt with all ports matched

### Mechanical

**Construction:** Stripline design

**Connectors:** Stainless Steel

**Operating Temp:** -55°C to +110°C

**Finish:** Unique corrosion resistant 316 stainless steel epoxy coating IAW MIL-F-14072

### Applicable Mil-Specs

**General:** see [ATM Mil-Spec](#) reference

**Product Specific:** see [ATM Mil-Spec](#) reference

## SMA Octave Band

### 4-Way Models

Freq GHz	Iso. dB	VSWR max.		IL dB	Amp Bal (+/- dB)	Phase Bal (+/- Deg)	Model No.	Outline Drawing
		In	Out					
<b>0.5 - 1.0</b>	22	1.45	1.30	0.90	0.2	4.0	P412	<a href="#">Fig 1</a>
<b>1.0 - 2.0</b>	20	1.40	1.25	0.80	0.3	5.0	P413	<a href="#">Fig 2</a>
<b>2.0 - 4.0</b>	20	1.35	1.35	0.60	0.6	6.0	P414	<a href="#">Fig 2</a>
<b>4.0 - 8.0</b>	20	1.45	1.35	0.60	0.3	4.0	P415	<a href="#">Fig 3</a>
<b>7.0 - 12.4</b>	18	1.45	1.35	0.80	0.6	6.0	P416	<a href="#">Fig 4</a>
<b>12.0 - 18.0</b>	18	1.50	1.40	0.90	0.6	6.0	P417	<a href="#">Fig 3</a>
<b>14.0 - 21.0</b>	16	1.60	1.60	1.50	0.6	6.0	P418	<a href="#">Fig 3</a>

## SMA Special Band

### 4-Way Models

Freq GHz	Iso. dB	VSWR max.		IL dB	Amp Bal (+/- dB)	Phase Bal (+/- Deg)	Model No.	Outline Drawing
		In	Out					
<b>0.85 - 1.65</b>	22	1.25	1.20	0.40	0.3	5.0	P413L	<a href="#">Fig 2</a>
<b>3.4 - 4.2</b>	19	1.30	1.25	0.50	0.3	4.0	P415C3	<a href="#">Fig 2</a>
<b>3.65 - 6.5</b>	20	1.35	1.25	0.40	0.3	4.0	P415C	<a href="#">Fig 3</a>
<b>3.65 - 4.3</b>	22	1.25	1.20	0.40	0.3	4.0	P415C1	<a href="#">Fig 2</a>
<b>5.85 - 6.5</b>	22	1.25	1.20	0.40	0.3	4.0	P415C2	<a href="#">Fig 3</a>
<b>7.2 - 8.4</b>	20	1.35	1.30	0.50	0.3	4.0	P415X	<a href="#">Fig 3</a>
<b>7.2 - 7.75</b>	20	1.30	1.30	0.50	0.3	4.0	P415X1	<a href="#">Fig 3</a>
<b>7.9 - 8.4</b>	20	1.30	1.30	0.50	0.3	4.0	P415X2	<a href="#">Fig 3</a>
<b>10.7 - 12.7</b>	20	1.40	1.35	0.60	0.6	6.0	P416X-1	<a href="#">Fig 5</a>
<b>10.7 - 14.5</b>	18	1.45	1.40	0.60	0.6	6.0	P416K-1	<a href="#">Fig 5</a>
<b>13.7 - 14.5</b>	20	1.40	1.35	0.60	0.6	6.0	P417K-1	<a href="#">Fig 5</a>
<b>5.7 - 18.5</b>	12	1.70	1.60	2.00	0.3	4.0	P415CJ	<a href="#">Dwg</a>

# SMA Multi Band

## 4-Way Models

Freq GHz	Iso. dB	VSWR max.		IL dB	Amp Bal (+/- dB)	Phase Shift (+/- Deg)	Model No.	Outline Drawing
		In	Out					
<b>0.5 - 2.5</b>	15	1.50	1.40	1.00	0.4	6.0	P412D	<a href="#">Fig 6</a>
<b>0.5 - 4.0</b>	15	1.50	1.40	1.00	0.4	7.0	P412E	<a href="#">Fig 6</a>
<b>2.0 - 8.0</b>	15	1.60	1.40	2.00	0.4	7.0	P414F	<a href="#">Fig 7</a>
<b>2.0 - 18.0</b>	15	1.60	1.40	2.00	0.6	6.0	P414H	<a href="#">Dwg</a>
<b>6.0 - 18.0</b>	18	1.60	1.40	1.30	0.6	6.0	P415H	<a href="#">Fig 8</a>
<b>8.0 - 18.0</b>	18	1.40	1.50	1.30	0.6	6.0	P416H	<a href="#">Fig 3</a>

## 8-Way SMA Models

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### Electrical

**RF Connectors:** SMA(F)

**RF Power:** 30 Watt with all ports matched

### Mechanical

**Construction:** Stripline design

**Connectors:** Stainless Steel

**Operating Temp:** -55°C to +110°C

**Finish:** Unique corrosion resistant 316 stainless steel epoxy coating IAW MIL-F-14072

### Applicable Mil-Specs

**General:** see [ATM Mil-Spec](#) reference

**Product Specific:** see [ATM Mil-Spec](#) reference

## SMA Octave Band

### 8-Way Models

Freq GHz	Iso. dB	VSWR max.		IL dB	Amp Bal (+/- dB)	Phase Bal (+/- Deg)	Model No.	Outline Drawing
		In	Out					
<b>0.5 - 1.0</b>	18	1.45	1.30	0.90	0.4	5.0	P812	<a href="#">Fig 1</a>
<b>1.0 - 2.0</b>	18	1.45	1.35	0.80	0.3	5.0	P813	<a href="#">Fig 2</a>
<b>2.0 - 4.0</b>	18	1.45	1.35	0.80	0.4	5.0	P814	<a href="#">Fig 3</a>
<b>4.0 - 8.0</b>	17	1.45	1.40	1.00	0.8	6.0	P815	<a href="#">Fig 3</a>
<b>8.0 - 12.4</b>	16	1.60	1.50	1.40	0.5	6.0	P816	<a href="#">Fig 7</a>
<b>12.0 - 18.0</b>	15	1.60	1.50	2.00	0.4	6.0	P817	<a href="#">Fig 3</a>

## SMA Special Band

### 8-Way Models

Freq GHz	Iso. dB	VSWR max.		IL dB	Amp Bal (+/- dB)	Phase Bal (+/- Deg)	Model No.	Outline Drawing
		In	Out					
<b>0.85 - 1.65</b>	18	1.45	1.40	0.80	0.3	5.0	P813L	<a href="#">Fig 2</a>
<b>3.4 - 4.2</b>	18	1.40	1.30	0.70	0.8	6.0	P815C3	<a href="#">Fig 3</a>
<b>3.65 - 6.5</b>	17	1.45	1.45	0.80	0.8	6.0	P815C	<a href="#">Fig 3</a>
<b>3.65 - 4.3</b>	18	1.40	1.40	0.80	0.8	6.0	P815C1	<a href="#">Fig 3</a>
<b>5.85 - 6.5</b>	18	1.45	1.40	0.80	0.8	6.0	P815C2	<a href="#">Fig 3</a>
<b>7.2 - 8.4</b>	16	1.45	1.40	0.90	0.8	6.0	P815X	<a href="#">Fig 7</a>
<b>7.2 - 7.75</b>	16	1.45	1.40	0.90	0.8	6.0	P815X1	<a href="#">Fig 7</a>
<b>7.9 - 8.4</b>	16	1.45	1.40	0.90	0.8	6.0	P815X2	<a href="#">Fig 7</a>
<b>10.7 - 12.7</b>	17	1.45	1.40	1.00	0.5	6.0	P816X-1	<a href="#">Fig 4</a>
<b>10.7 - 14.5</b>	17	1.45	1.40	1.00	0.5	6.0	P816K-1	<a href="#">Fig 4</a>
<b>13.7 - 14.5</b>	17	1.45	1.40	1.00	0.4	6.0	P817K-1	<a href="#">Fig 4</a>

# SMA Multi Band

## 8-Way Models


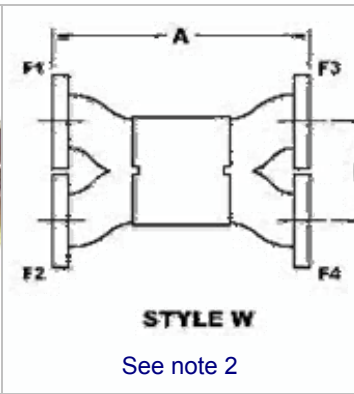
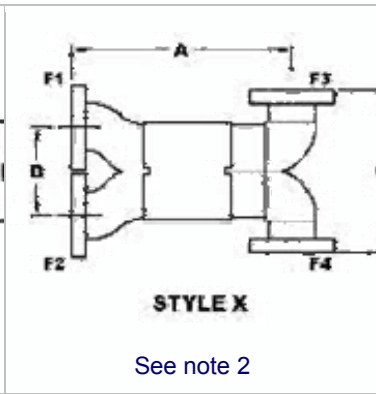

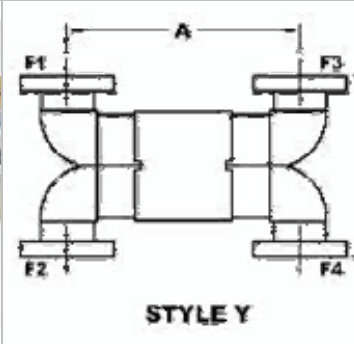
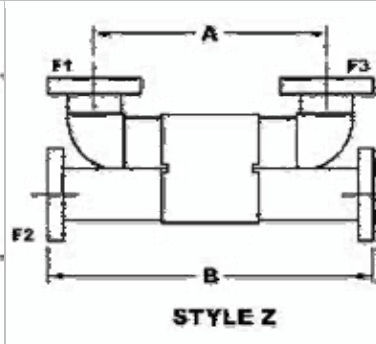
Freq GHz	Iso. dB	VSWR max.		IL dB	Amp Bal (+/- dB)	Phase Bal (+/- Deg)	Model No.	Outline Drawing
		In	Out					
<b>2.0 - 18.0</b>	13	1.70	1.70	3.00	1.4	10.0	P814H	<a href="#">Fig 5</a>
<b>8.0 - 18.0</b>	15	1.60	1.50	2.00	0.6	6.0	P816H	<a href="#">Fig 6</a>



# Waveguide Combiners & Dividers

See Also: [W/G Couplers](#), [Broadwall Directional](#) [Coax Power Dividers & Combiners](#)

ATM manufactures Waveguide Short Slot Hybrid Combiners/Dividers in a choice of configurations. These units are useful in applications where smaller sizes are required. For applications where full band width is needed or for uneven power distribution of values other than 3dB, ATM manufactures [Broadwall Coupler](#) Combiners/Dividers which utilize a multi-hole coupler design resulting in full band width. Feel free to call us and discuss your needs with one of our design engineers.

3 dB Short Slot Hybrid Combiner/Divider			
	 <p><b>STYLE W</b> See note 2</p>	 <p><b>STYLE X</b> See note 2</p>	
	 <p><b>STYLE Y</b></p>	 <p><b>STYLE Z</b></p>	
<p><b>Note 1:</b> If F1 is input, then F3 and F4 are 3dB nominal and F2 is isolated from F1.</p> <p><b>Note 2:</b> The 'A' &amp; 'B' dimensions for Styles W &amp; X Combiners/Dividers may change based on flange type selected.</p> <p>See <a href="#">ATM Flange page</a> for more information on flanges.</p>			

## Standard Models

WG Size	Freq (GHz)	VSWR max	Iso. min	Balance dB +/- (max)	Standard Model No.	Outline Dwg.
WR284	<b>2.66 - 2.99</b>	1.15	26	0.25	284-261A-Z-6-6-6-6	Dwg
WR284	<b>2.99 - 3.44</b>	1.15	26	0.25	284-262A-Z-6-6-6-6	Dwg
WR284	<b>3.44 - 3.95</b>	1.15	26	0.25	284-263A-Z-6-6-6-6	Dwg
WR229	<b>3.70 - 4.20</b>	1.15	26	0.25	229-261A-Z-2-2-2-2	Dwg
WR187	<b>3.95 - 4.50</b>	1.15	26	0.25	187-261A-Z-6-6-6-6	Dwg
WR187	<b>4.50 - 5.20</b>	1.15	26	0.25	187-262A-Z-6-6-6-6	Dwg
WR187	<b>5.20 - 5.90</b>	1.15	26	0.25	187-263A-Z-6-6-6-6	Dwg
WR159	<b>5.40 - 5.90</b>	1.15	26	0.15	159-261A-Z-2-2-2-2	Dwg
WR159	<b>5.90 - 6.50</b>	1.15	26	0.15	159-262A-Z-2-2-2-2	Dwg
WR137	<b>5.40 - 6.00</b>	1.15	26	0.20	137-261A-Z-2-2-2-2	Dwg
WR137	<b>5.80 - 6.50</b>	1.15	26	0.20	137-265A-Z-2-2-2-2	Dwg
WR137	<b>6.00 - 7.00</b>	1.15	26	0.20	137-262A-Z-2-2-2-2	Dwg
WR137	<b>6.85 - 7.80</b>	1.15	26	0.20	137-263A-Z-2-2-2-2	Dwg
WR137	<b>7.15 - 8.20</b>	1.15	26	0.20	137-264A-Z-2-2-2-2	Dwg
WR112	<b>6.90 - 8.00</b>	1.15	26	0.15	112-261A-Z-6-6-6-6	Dwg
WR112	<b>7.90 - 9.00</b>	1.15	26	0.15	112-262A-Z-6-6-6-6	Dwg
WR112	<b>8.80 - 10.25</b>	1.15	26	0.15	112-263A-Z-6-6-6-6	Dwg
WR112	<b>7.50 - 8.50</b>	1.15	26	0.15	112-264A-Z-6-6-6-6	Dwg
WR102	<b>9.40 - 10.60</b>	1.15	26	0.25	102-261A-Z-6-6-6-6	Dwg
WR90	<b>8.10 - 9.30</b>	1.15	26	0.25	90-261A-Z-6-6-6-6	Dwg
WR90	<b>9.10 - 10.2</b>	1.15	26	0.25	90-262A-Z-6-6-6-6	Dwg
WR90	<b>9.40 - 10.8</b>	1.15	26	0.25	90-263A-Z-6-6-6-6	Dwg
WR90	<b>10.5 - 11.9</b>	1.15	26	0.25	90-264A-Z-6-6-6-6	Dwg
WR75	<b>10.0 - 11.6</b>	1.15	26	0.25	75-261A-Z-6-6-6-6	Dwg
WR75	<b>11.6 - 13.4</b>	1.15	26	0.25	75-262A-Z-6-6-6-6	Dwg
WR75	<b>13.0 - 15.0</b>	1.15	26	0.25	75-263A-Z-6-6-6-6	Dwg
WR62	<b>12.4 - 14.0</b>	1.15	26	0.25	62-261A-Z-6-6-6-6	Dwg
WR62	<b>13.5 - 15.6</b>	1.15	26	0.25	62-262A-Z-6-6-6-6	Dwg
WR62	<b>15.5 - 18.0</b>	1.15	26	0.25	62-263A-Z-6-6-6-6	Dwg
WR51	<b>15.5 - 17.5</b>	1.15	26	0.25	51-261A-Z-6-6-6-6	Dwg
WR51	<b>17.35 - 19.65</b>	1.15	26	0.25	51-262A-Z-6-6-6-6	Dwg

WR42	<b>17.6 - 20.0</b>	1.15	26	0.25	42-261A-Z-6-6-6-6	Dwg
WR42	<b>19.3 - 22.0</b>	1.15	26	0.25	42-262A-Z-6-6-6-6	Dwg
WR42	<b>22.5 - 26.0</b>	1.15	26	0.25	42-263A-Z-6-6-6-6	Dwg
WR28	<b>26.0 - 30.0</b>	1.15	26	0.25	28-261A-Z-6-6-6-6	Dwg
WR28	<b>27.5 - 31.2</b>	1.15	26	0.25	28-265A-Z-6-6-6-6	Dwg
WR28	<b>30.0 - 34.0</b>	1.15	26	0.25	28-262A-Z-6-6-6-6	Dwg
WR28	<b>33.5 - 37.0</b>	1.15	26	0.25	28-263A-Z-6-6-6-6	Dwg
WR28	<b>36.0 - 40.0</b>	1.15	26	0.25	28-264A-Z-6-6-6-6	Dwg

**Ordering Information**

W/G Combiner  
Divider

**Example**

**part number:** 42 -263 A -Z -6 -6 -6 -6

Waveguide Size:  
(WR)  
WR28 thru WR284  
available

Basic Model No.:  
(-Mod)

Material (M): A=Aluminum,  
B=Copper/Brass

Style (-S): W, X, Y, or Z  
config. See [illustrations](#)

Flange 1 (-F1): 1=CPRG,  
2=CPRF, 6=Cover, 7=Choke

Flange 2 (-F2): 1=CPRG,  
2=CPRF, 6=Cover, 7=Choke

Flange 3 (-F3): 1=CPRG,  
2=CPRF, 6=Cover, 7=Choke

Flange 4 (-F4): 1=CPRG, 2=CPRF, 6=Cover,  
7=Choke

\*The Standard Model Numbers above are the most common parts ordered for size, material and flange. However, these models can easily be altered to accommodate your needs by using the Model # code system to the left.

See [ATM Standard Flange](#) page for more info.