

List Valid on Monday, 27th April, 2026

Attenuators, Variable, Calibrated - Series 020

| Model | WG Size | Frequency band | Flange | VSWR | Insertion Loss | QTY |
|----------|----------------|----------------------|-------------------|----------|----------------|-----|
| 21020 | WG21 WR34 R260 | 21.7 GHz to 33 GHz | UBR260 | 1.07 MAX | 0.35 dB MAX | 1 |
| 22020 | WG22 WR28 R320 | 26.4 GHz to 40.1 GHz | UBR320 | 1.07 MAX | 0.4 dB MAX | 3 |
| 24020 | WG24 WR19 R500 | 39.3 GHz to 60 GHz | UG-383/U-MOD | 1.07 MAX | 0.20 dB MAX | 1 |
| 25020 | WG25 WR15 R620 | 49.9 GHz to 75.8 GHz | UG-385/U-AC | 1.07 MAX | 0.20 dB MAX | 1 |
| 27020-AB | WG27 WR10 R900 | 73.8 GHz to 112 GHz | UG-387/U-Mod Comp | 1.1 MAX | 0.4 dB MAX | 1 |
| 32020 | WG32 -- R2600 | 217 GHz to 330 GHz | UG-387/U-Mod-PF | 1.2 MAX | 0.7 dB MAX | 1 |
| 570020 | WM-570 --- --- | 330 GHz to 500 GHz | UG-387/U-MOD-PF | 1.33 MAX | 1.5 dB MAX | 1 |

Attenuator, Fixed - Series 081

| Model | WG Size | Frequency band | Flange | Attenuation Value | VSWR | QTY |
|----------|----------------|----------------------|-------------|-------------------|---------|-----|
| 15081-10 | WG15 WR112 R84 | 6.58 GHz to 10 GHz | UBR84 | 10 dB +/- 1.0 dB | 1.1 MAX | 1 |
| 17081-10 | WG17 WR75 R120 | 9.84 GHz to 15 GHz | UBR120 | 10 dB +/- 1.0 dB | 1.1 MAX | 6 |
| 17081-40 | WG17 WR75 R120 | 9.84 GHz to 15 GHz | UBR120 | 40 dB +/- 4.0 dB | 1.2 MAX | 4 |
| 18081-20 | WG18 WR62 R140 | 11.9 GHz to 18 GHz | UBR140 | 20 dB +/- 2 dB | 1.1 MAX | 3 |
| 20081-06 | WG20 WR42 R220 | 17.6 GHz to 26.7 GHz | UBR220 | 6 dB +/- 0.6 dB | 1.1 MAX | 2 |
| 22081-03 | WG22 WR28 R320 | 26.4 GHz to 40.1 GHz | UG-599/U | 3 dB +/- 0.3 dB | 1.1 MAX | 2 |
| 22081-06 | WG22 WR28 R320 | 26.4 GHz to 40.1 GHz | UG-599/U | 6 dB +/- 0.6 dB | 1.1 MAX | 3 |
| 22081-10 | WG22 WR28 R320 | 26.4 GHz to 40.1 GHz | PBR320 | 10 dB +/- 1.0 dB | 1.1 MAX | 5 |
| 22081-20 | WG22 WR28 R320 | 26.4 GHz to 40.1 GHz | UG-599/U | 20 dB +/- 2 dB | 1.1 MAX | 2 |
| 26081-10 | WG26 WR12 R740 | 60.5 GHz to 92 GHz | UG-387/U | 10 dB +/- 1 dB | 1.1 MAX | 2 |
| 26081-20 | WG26 WR12 R740 | 60.5 GHz to 92 GHz | UG-387/U-AC | 20 dB +/- 2 dB | 1.1 MAX | 1 |

Attenuator, Precision, Rotary - Series 110

| Model | WG Size | Frequency band | Flange | VSWR | Insertion Loss | QTY |
|-------|----------------|--------------------|-------------|----------|----------------|-----|
| 26110 | WG26 WR12 R740 | 60.5 GHz to 92 GHz | UG-387/U-AC | 1.15 MAX | 1.3 dB MAX | 2 |
| 32110 | WG32 -- R2600 | 217 GHz to 330 GHz | 1785-2a | 1.5 MAX | 3.0 dB MAX | 1 |

Attenuator, Fixed, Precision, Offset Ports - Series 582

| Model | WG Size | Frequency band | Flange (port 1) | Flange (port 2) | Attenuation Value | Power (mean or cw) | VSWR | QTY |
|----------|----------------|---------------------|-----------------|-----------------|-------------------|--------------------|----------|-----|
| 27582-20 | WG27 WR10 R900 | 73.8 GHz to 112 GHz | UG-387/U-Mod | UG-387/U-Mod | 20 dB | 300 mW MAX | 1.10 MAX | 1 |

Attenuator, Fixed - Series 587

| Model | WG Size | Frequency band | Flange | Attenuation Value | VSWR | QTY |
|----------|----------------|------------------|------------|-------------------|---------|-----|
| 26587-20 | WG26 WR12 R740 | 60 GHz to 92 GHz | UG387/U-AC | 20 dB | 1.2 MAX | 27 |

Programmable Attenuator, Series 621 - Series 621

| Model | WG Size | Frequency band | Flange | Connector | Attenuation Range | VSWR | Insertion Loss | QTY |
|-------|----------------|--------------------|-------------|----------------------|-------------------|----------|----------------|-----|
| 26621 | WG26 WR12 R740 | 60.5 GHz to 92 GHz | UG-387/U-AC | D-type Male (25 way) | 0 dB to 60 dB | 1.15 MAX | 1.3 dB MAX | 1 |

System Programmable Attenuator, Series 624 - Series 624

| Model | WG Size | Frequency band | Flange | Data protocol | Attenuation Range | VSWR | Insertion Loss | QTY |
|----------|----------------|------------------|-------------|---------------|-------------------|----------|----------------|-----|
| 26624-01 | WG26 WR12 R740 | 60 GHz to 92 GHz | UG-387/U-AC | Ethernet | 0 dB to 50 dB | 1.15 MAX | 1.4 dB MAX | 1 |

Directional Coupler, Multihole - Series 131

| Model | WG Size | Frequency band | Flange | Port 1 to Port 3 Coupling Value | QTY |
|----------|----------------|----------------------|----------|---------------------------------|-----|
| 15131-40 | WG15 WR112 R84 | 6.58 GHz to 10 GHz | UBR84 | 40 dB | 1 |
| 22131-03 | WG22 WR28 R320 | 26.4 GHz to 40.1 GHz | UG-599/U | 3 dB | 1 |

Directional Coupler, Multihole - Series 132

| Model | WG Size | Frequency band | Flange | Port 1 to Port 3 Coupling Value | QTY |
|----------|----------------|----------------------|----------|---------------------------------|-----|
| 22132-03 | WG22 WR28 R320 | 26.4 GHz to 40.1 GHz | UG-599/U | 3 dB | 1 |

Directional Coupler, Multihole - Series 136

| Model | WG Size | Frequency band | Flange | Port 1 to Port 3 Coupling Value | Directivity | Secondary arm VSWR | QTY |
|----------------|----------------|----------------------|-----------------|---------------------------------|-------------|--------------------|-----|
| 23136-03 | WG23 WR22 R400 | 33 GHz to 50.1 GHz | UG-383/U-AC | 3 dB | 40 dB MIN | 1.10 MAX | 2 |
| 25136-03 | WG25 WR15 R620 | 49.9 GHz to 75.8 GHz | UG-385/U-AC | 3 dB | 38 dB MIN | 1.10 MAX | 1 |
| 25136-20 | WG25 WR15 R620 | 49.9 GHz to 75.8 GHz | UG-385/U | 20 dB | 38 dB MIN | 1.10 MAX | 1 |
| 25136-30 | WG25 WR15 R620 | 49.9 GHz to 75.8 GHz | UG-385/U-PD | 30 dB | 38 dB MIN | 1.10 MAX | 1 |
| 25136-40 | WG25 WR15 R620 | 49.9 GHz to 75.8 GHz | UG-385/U-PD | 40 dB | 35 dB MIN | 1.10 MAX | 1 |
| 26136-10 | WG26 WR12 R740 | 60.5 GHz to 92 GHz | UG-387/U | 10 dB | 38 dB MIN | 1.10 MAX | 1 |
| 26136-10 | WG26 WR12 R740 | 60.5 GHz to 92 GHz | UG-387/U-AC | 10 dB | 38 dB MIN | 1.10 MAX | 2 |
| 26136-20 | WG26 WR12 R740 | 60.5 GHz to 92 GHz | UG-387/U-AC | 20 dB | 38 dB MIN | 1.10 | 1 |
| 27136-06 | WG27 WR10 R900 | 73.8 GHz to 112 GHz | UG-387/U-Mod-AC | 6 dB | 36 dB MIN | 1.10 MAX | 1 |
| 28136-06 | WG28 WR8 R1200 | 92.3 GHz to 140 GHz | UG-387/U-Mod | 6 dB | 34 dB MIN | 1.15 MAX | 2 |
| 28136-10 | WG28 WR8 R1200 | 92.3 GHz to 140 GHz | UG-387/U-Mod-AC | 10 dB | 34 dB MIN | 1.15 MAX | 1 |
| 29136-10 | WG29 WR6 R1400 | 114 GHz to 173 GHz | UG-387/U-Mod-AC | 10 dB | 32 dB MIN | 1.20 MAX | 2 |
| 29136-03-4P | WG29 WR6 R1400 | 114 GHz to 173 GHz | UG-387/U-Mod-AC | 3 dB | | 1.20:1 | 1 |
| 29136-06-4P | WG29 WR6 R1400 | 114 GHz to 173 GHz | UG-387/U-Mod-AC | 6 dB | | 1.20:1 | 1 |
| 29136-30-11641 | WG29 WR6 R1400 | 114 GHz to 173 GHz | 1785-2a | 30 dB | 32 dB MIN | 1.20 MAX | 1 |
| 30136-03 | WG30 WR5 R1800 | 145 GHz to 220 GHz | UG-387/U-Mod-PF | 3 dB | 30 dB MIN | 1.25 MAX | 1 |
| 30136-06 | WG30 WR5 R1800 | 145 GHz to 220 GHz | UG387/U-Mod | 6 dB | 30 dB MIN | 1.25 MAX | 1 |

Directional Coupler, Multihole - Series 136

| Model | WG Size | Frequency band | Flange | Port 1 to Port 3 Coupling Value | Directivity | Secondary arm VSWR | QTY |
|----------|---------------|--------------------|-----------------|---------------------------------|-------------|--------------------|-----|
| 32136-03 | WG32 -- R2600 | 217 GHz to 330 GHz | UG-387/U-Mod-PF | 3 dB | 26 dB MIN | 1.40 MAX | 1 |

Directional Coupler, Multihole - Series 137

| Model | WG Size | Frequency band | Flange | Port 1 to Port 3 Coupling Value | Directivity | Secondary arm VSWR | QTY |
|--------------|----------------|----------------------|-----------------|---------------------------------|-------------|--------------------|-----|
| 24137-03 | WG24 WR19 R500 | 39.3 GHz to 59.7 GHz | UG-383/U-PD | 3 dB | 42 dB MIN | 1.10 MAX | 1 |
| 25137-06 | WG25 WR15 R620 | 49.9 GHz to 75.8 GHz | UG-385/U-PF | 6 dB | 42 dB MIN | 1.10 MAX | 1 |
| 28137-10 | WG28 WR8 R1200 | 92.3 GHz to 140 GHz | UG-387/U-Mod-PF | 10 dB | 38 dB MIN | 1.15 MAX | 1 |
| 570137-03-AA | WM-570 ---- | 330 GHz to 500 GHz | UG-387/U-Mod-PF | 3 dB | 26 dB MIN | 2.00 | 3 |

Dual Directional Coupler, Multihole - Series 300

| Model | WG Size | Frequency band | Flange | Configuration | Port 1 to Port 3 Coupling Value | Port 2 to Port 4 Coupling Value | QTY |
|----------|----------------|--------------------|--------|---------------|---------------------------------|---------------------------------|-----|
| 21300-AF | WG21 WR34 R260 | 21.7 GHz to 33 GHz | UBR260 | A | 30 dB | 40 dB | 1 |

Dual Directional Coupler, Multihole - Series 301

| Model | WG Size | Frequency band | Port 1 Interface | Port 2 Interface | Port 3 Interface | Port 4 Interface | Configuration | Port 1 to Port 3 Coupling Value | Port 2 to Port 4 Coupling Value | QTY |
|--------------|----------------|--------------------|------------------|------------------|------------------|------------------|---------------|---------------------------------|---------------------------------|-----|
| 23301-12585 | WG23 WR22 R400 | 33 GHz to 50.1 GHz | UG-383/U | UG-383/U | UG-383/U | UG-383/U | E | 30 dB | | 1 |
| 27301-AE | WG27 WR10 R900 | 75 GHz to 110 GHz | UG-387/U-PD | UG-387/U-PD | UG-387/U-PD | UG-387/U-PD | C | 10.0 dB | 10.0 dB | 1 |
| 27301-9521 | WG27 WR10 R900 | 75 GHz to 110 GHz | 1785.2a | UG-387/U-PD | UG-387/U-PD | UG-387/U-PD | C | 10.0 dB | 10.0 dB | 2 |
| 27301-11188 | WG27 WR10 R900 | 75 GHz to 110 GHz | 1785-2a | UG-387/U-PF | UG-387/U-PF | UG-387/U-PF | C | 20.0 dB | 20.0 dB | 1 |
| 570301-10464 | WM-570 ---- | 325 GHz to 500 GHz | 1785.2a | 1785.2a | 1785.2a | 1785.2a | C | 5 dB | 10 dB | 1 |

Termination, Precision, Low Power - Series 040

| Model | WG Size | Frequency band | Flange | Power natural convection (mean or CW) | VSWR | QTY |
|--------|-----------------|----------------------|-----------------|---------------------------------------|-----------|-----|
| 11A040 | WG11A WR229 R40 | 3.22 GHz to 4.9 GHz | UDR40 | 6 W MAX | 1.01 MAX | 3 |
| 14040 | WG14 WR137 R70 | 5.38 GHz to 8.18 GHz | UDR70 | 3 W MAX | 1.01 MAX | 3 |
| 15040 | WG15 WR112 R84 | 6.58 GHz to 10 GHz | UBR84 | 2 W MAX | 1.01 MAX | 1 |
| 17040 | WG17 WR75 R120 | 9.84 GHz to 15 GHz | UBR120 | 750 mW MAX | 1.015 MAX | 2 |
| 30040 | WG30 WR5 R1800 | 140 GHz to 220 GHz | UG-387/U-Mod-PF | 120 mW MAX | 1.06 MAX | 1 |
| 31040 | WG31 -- R2200 | 170 GHz to 261 GHz | UG-387/U-M-PF | 100 mW MAX | 1.08 MAX | 1 |

Termination, Fixed, Precision Grade - Series 043

| Model | WG Size | Frequency band | Flange | VSWR | QTY |
|-------|----------------|----------------------|-----------------|-----------|-----|
| 21043 | WG21 WR34 R260 | 21.7 GHz to 33 GHz | UG-1530/U-PF | 1.02 MAX | 1 |
| 23043 | WG23 WR22 R400 | 33 GHz to 50.1 GHz | UG-383/U-PF | 1.02 MAX | 3 |
| 24043 | WG24 WR19 R500 | 39.3 GHz to 60 GHz | UG-383/U-PF | 1.02 MAX | 3 |
| 25043 | WG25 WR15 R620 | 49.9 GHz to 75.8 GHz | UG-385/U-PF | 1.02 MAX | 3 |
| 27043 | WG27 WR10 R900 | 73.8 GHz to 112 GHz | UG387/U-PF | 1.03 MAX | 3 |
| 29043 | WG29 WR6 R1400 | 110 GHz to 173 GHz | UG-387/U-Mod-PF | 1.045 MAX | 3 |
| 30043 | WG30 WR5 R1800 | 140 GHz to 220 GHz | UG-387/U-Mod-PF | 1.055 MAX | 2 |
| 31043 | WG31 -- R2200 | 170 GHz to 261 GHz | UG-387/U-Mod-PF | 1.07 MAX | 5 |

Termination, Precision, Low Power, Bronze Grade - Series 045

| Model | WG Size | Frequency band | Flange | VSWR | QTY |
|----------------|----------------|----------------------|--------------|-----------|-----|
| 15045 | WG15 WR112 R84 | 6.58 GHz to 10 GHz | UBR84-PF | 1.01 MAX | 2 |
| 16045 | WG16 WR90 R100 | 8.2 GHz to 12.5 GHz | UBR100-PF | 1.015 MAX | 2 |
| 16045-5509 | WG16 WR90 R100 | 8.2 GHz to 12.5 GHz | WR90Imperial | 1.02 MAX | 3 |
| 17045 | WG17 WR75 R120 | 9.84 GHz to 15 GHz | UBR120-PF | 1.015 | 3 |
| 18045 | WG18 WR62 R140 | 11.9 GHz to 18 GHz | UBR140-PF | 1.02 MAX | 2 |
| 19045 | WG19 WR51 R180 | 14.5 GHz to 22 GHz | UBR180-PF | 1.02 MAX | 1 |
| 20045 | WG20 WR42 R220 | 17.6 GHz to 26.7 GHz | UBR220-PF | 1.02 MAX | 1 |
| 21045 | WG21 WR34 R260 | 21.7 GHz to 33 GHz | UBR260-PF | 1.02 MAX | 2 |
| 23045 | WG23 WR22 R400 | 33 GHz to 50.1 GHz | UG383/U-PF | 1.02 MAX | 1 |
| 23045 | WG23 WR22 R400 | 33 GHz to 50.1 GHz | GP798-PF | 1.02 MAX | 2 |
| 24045 | WG24 WR19 R500 | 39.3 GHz to 60 GHz | UG-383/U-PF | 1.02 MAX | 1 |
| 25045 | WG25 WR15 R620 | 49.9 GHz to 75.8 GHz | UG385/U-PF | 1.02 MAX | 3 |
| 25045 | WG25 WR15 R620 | 49.9 GHz to 75.8 GHz | 1785-2a | 1.02 MAX | 2 |
| 26045 | WG26 WR12 R740 | 60 GHz to 92 GHz | UG-387/U-PF | 1.03 MAX | 3 |
| 26045 | WG26 WR12 R740 | 60 GHz to 92 GHz | 1785.2a | 1.03 MAX | 3 |
| 570045 | WM-570 --- --- | 330 GHz to 500 GHz | 1785-2a | 1.13 MAX | 1 |
| WRD580045-4564 | --- WRD580 --- | 5.9 GHz to 16 GHz | C1A | 1.09 MAX | 1 |

Termination, High Power - Series 101

| Model | WG Size | Frequency band | Flange | VSWR | Power natural convection (mean or CW) | QTY |
|--------------------|----------------|----------------------|----------|----------|---------------------------------------|-----|
| 14101-50-CN00 | WG14 WR137 R70 | 5.38 GHz to 8.18 GHz | UAR70 | 1.08 MAX | 50 W MAX | 1 |
| 17101-1600 | WG17 WR75 R120 | 9.84 GHz to 15 GHz | UBR120 | 1.08 MAX | 1.6 kW MAX | 1 |
| 19101-500-CV10 | WG19 WR51 R180 | 14.5 GHz to 22 GHz | UBR180 | 1.08 MAX | 500 W MAX | 1 |
| 23101-6-CN00 | WG23 WR22 R400 | 33 GHz to 50.1 GHz | UG-383/U | 1.1 MAX | 6 W MAX | 1 |
| 23101-500-CV20 | WG23 WR22 R400 | 33 GHz to 50.1 GHz | UG-383/U | 1.12 MAX | 500 W MAX | 1 |
| WRD650101-450-CV10 | --- WRD650 --- | 6.5 GHz to 18 GHz | C1A | 1.1 MAX | 450 W MAX | 1 |

Termination, Sliding, Silver Grade - Series 542

| Model | WG Size | Frequency band | Flange | Element Return Loss | QTY |
|-------|----------------|--------------------|-----------|---------------------|-----|
| 17542 | WG17 WR75 R120 | 9.84 GHz to 15 GHz | UBR120-PF | 30 dB +/- 4 dB | 2 |
| 18542 | WG18 WR62 R140 | 11.9 GHz to 18 GHz | UBR140-PF | 30 dB +/- 4 dB | 1 |
| 19542 | WG19 WR51 R180 | 14.5 GHz to 22 GHz | UBR180-PF | 30 dB +/- 4 dB | 1 |

Termination, Sliding, Metrology Grade - Series 543

| Model | WG Size | Frequency band | Flange | Element Return Loss | QTY |
|-------|----------------|----------------------|------------|---------------------|-----|
| 18543 | WG18 WR62 R140 | 11.9 GHz to 18 GHz | UBR140-PF | 30 dB +/- 4 dB | 1 |
| 25543 | WG25 WR15 R620 | 49.9 GHz to 75.8 GHz | UG385/U-PF | 30 dB +/- 5 dB | 1 |

Frequency Meter, Programmable - Series 073

| Model | WG Size | Frequency band | Flange | Loaded Q (typical) | Housing VSWR | Insertion Loss | QTY |
|-------|---------------|--------------------|-----------------|--------------------|--------------|----------------|-----|
| 32073 | WG32 -- R2600 | 217 GHz to 330 GHz | UG-387/U-Mod-PF | 350 | 1.35 MAX | 1.9 dB MAX | 1 |

Satcom Switch, DC 2 Way - Series 336

| Model | WG Size | Frequency band | Flange | Isolation | Power (mean or cw) | VSWR | Insertion Loss | QTY |
|-----------------|----------------|----------------------|--------|-----------|--------------------|----------|----------------|-----|
| 22336-000S1JL01 | WG22 WR28 R320 | 26.4 GHz to 40.1 GHz | | 75 dB MIN | 800 W MAX | 1.08 MAX | 0.10 dB MAX | 1 |

Hybrid Tee, Matched, Full band - Series 385

| Model | WG Size | Frequency band | Flange | VSWR | Insertion Loss | QTY |
|-------|----------------|----------------------|---------|---------|----------------|-----|
| 22385 | WG22 WR28 R320 | 26.4 GHz to 40.1 GHz | UG599/U | 1.3 MAX | 0.2 dB MAX | 2 |

Tee, Matched, E Plane - Series 400

| Model | WG Size | Frequency band | Flange | Balance between colinear ports | VSWR | Insertion Loss | QTY |
|-------|----------------|--------------------|--------|--------------------------------|----------|----------------|-----|
| 18400 | WG18 WR62 R140 | 11.9 GHz to 18 GHz | UBR140 | 0.1 dB MAX | 1.12 MAX | 0.12 dB MAX | 1 |

Horn, Standard Gain - Series 240

| Model | WG Size | Frequency band | Flange | Nominal Gain | VSWR | QTY |
|--------------|----------------|----------------------|--------------|--------------|----------|-----|
| DP240-AB | COAX | 2 GHz to 18 GHz | SMA | | 2.5 MAX | 3 |
| 15240-20 | WG15 WR112 R84 | 6.58 GHz to 10 GHz | UBR84 | 20 dBi | 1.2 MAX | 1 |
| 15240-20\AL | WG15 WR112 R84 | 6.58 GHz to 10 GHz | UBR84 | 20 dBi | 1.2 MAX | 1 |
| 16240-20 | WG16 WR90 R100 | 8.2 GHz to 12.5 GHz | UBR100 | 20 dBi | 1.2 MAX | 2 |
| 18240-20 | WG18 WR62 R140 | 11.9 GHz to 18 GHz | UBR140 | 20 dBi | 1.2 MAX | 3 |
| 20240-20 | WG20 WR42 R220 | 17.6 GHz to 26.7 GHz | UBR220 | 20 dBi | 1.2 MAX | 3 |
| 22240-20 | WG22 WR28 R320 | 26.4 GHz to 40.1 GHz | UG-599/U | 20 dBi | 1.2 MAX | 2 |
| 22240-17 | WG22 WR28 R320 | 26.4 GHz to 40.1 GHz | UG-599/U | 17 dBi | 1.2 MAX | 1 |
| 24240-20 | WG24 WR19 R500 | 39.3 GHz to 59.7 GHz | UG-383/U-Mod | 20 dBi | 1.2 MAX | 2 |
| 25240-ECO-20 | WG25 WR15 R620 | 49.9 GHz to 75.8 GHz | UG-385/U | 20 dBi | 1.2 MAX | 2 |
| 26240-25 | WG26 WR12 R740 | 60.5 GHz to 92 GHz | UG-387/U | 25 dBi | 1.2 MAX | 2 |
| 26240-20 | WG26 WR12 R740 | 60.5 GHz to 92 GHz | UG-387/U | 20 dBi | 1.2 MAX | 3 |
| 27240-30 | WG27 WR10 R900 | 73.8 GHz to 112 GHz | UG-387/U-Mod | 30 dBi | 1.20 MAX | 1 |
| 32240-20-101 | WG32 -- R2600 | 217 GHz to 330 GHz | 1785-2a | 20 dBi | 1.2 MAX | 2 |

Omni Directional Antenna - Series 249

| Model | WG Size | Frequency band | Connector | Nom mid-band gain | VSWR | QTY |
|-------------|---------|--------------------|--------------|-------------------|----------|-----|
| MD249-AC | COAX | 36 GHz to 43.5 GHz | 2.4mm Female | 1.0 dBi Ref. Only | 1.60 MAX | 2 |
| MD249-10702 | COAX | 17 GHz to 21 GHz | K Female | 2.0 dBi Ref. Only | 1.75 MAX | 1 |

Lens Horn Antenna (Economy) - Series 820

| Model | WG Size | Frequency band | Flange | Nom mid-band gain | Lens Diameter | VSWR | QTY |
|---------------|----------------|--------------------|---------------|-------------------|---------------|---------|-----|
| 21820-RA-4857 | WG21 WR34 R260 | 21.7 GHz to 33 GHz | UBR260-PF | 31.5 dBi | 175 mm | 1.5 MAX | 1 |
| 26820-WA-2919 | WG26 WR12 R740 | 71 GHz to 86 GHz | UG-387/U Comp | 39.33 dBi | 125 mm | 1.6 MAX | 3 |

Lens Horn Antenna (High Performance) - Series 880

| Model | WG Size | Frequency band | Flange | Nom mid-band gain | Lens Diameter | VSWR | QTY |
|----------------|---------------|------------------|---------------|-------------------|---------------|----------|-----|
| CW880-FB-11857 | NOT SPECIFIED | 33 GHz to 37 GHz | UG-383/U comp | 33.5 dBi MIN | 150 mm | 1.4 MAX | 1 |
| CL880-FA-3328 | COAX | 7 GHz to 8 GHz | N Type Female | 20 dBi | | 1.25 MAX | 35 |

Filter, Low Pass - Series 280

| Model | WG Size | Stop band frequency range | Port 1 Interface | Port 2 Interface | VSWR | Insertion Loss | QTY |
|---------------------|----------------|---------------------------|------------------|------------------|----------|----------------|-----|
| 19280-4567-OBSOLETE | WG19 WR51 R180 | 29 GHz to 66 GHz | UBR180 | UBR180 | 1.15 MAX | 0.35 dB MAX | 5 |
| 21280 | WG21 WR34 R260 | 43.4 GHz to 99 GHz | UBR260 | UBR260 | 1.2 MAX | 0.45 dB MAX | 1 |
| 23280-OBSOLETE | WG23 WR22 R400 | 66 GHz to 150.3 GHz | UG-383/U | Not Specified | 1.3 MAX | 0.5 dB MAX | 1 |
| 23280-OBSOLETE | WG23 WR22 R400 | 66 GHz to 150.3 GHz | UG383/U-AC | UG-383/U-AC | 1.3 MAX | 0.5 dB MAX | 1 |
| 26280-2515 | WG26 WR12 R740 | 103 GHz to 120 GHz | UG387/U-Mod | Not Specified | 1.45 MAX | 0.6 dB MAX | 3 |
| 27280-2513 | WG27 WR10 R900 | 125 GHz to 147.6 GHz | UG387/U-Mod | UG387/U-Mod | 1.55 MAX | 0.7 dB MAX | 1 |

Filter, Band Stop Fixed - Series 283

| Model | WG Size | Passband frequency range | Flange | Stop band frequency range | Stop band rejection | Return Loss | QTY |
|-------------|----------------|--------------------------|--------------|---------------------------|---------------------|-------------|-----|
| 27283-11723 | WG27 WR10 R900 | 93 GHz to 95.5 GHz | UG-387/U-MOD | 85.5 MHz to 87 GHz | | | 3 |

Filter, Band Pass, Broadband - Series 284

| Model | WG Size | Frequency band | Flange | VSWR | Insertion Loss | QTY |
|-------------|----------------|----------------------|--------|---------|----------------|-----|
| 17284-10385 | WG17 WR75 R120 | 10.7 GHz to 14.8 GHz | tbc | 1.1 MAX | 0.45 dB MAX | 1 |

Diplexer - Series 286

| Model | WG Size | Frequency band | Flange | Stop band frequency range | VSWR | Insertion Loss | QTY |
|-------------|----------------|-----------------------|---------------------|---------------------------|---------|----------------|-----|
| 17286-10811 | WG17 WR75 R120 | 10.7 GHz to 13.85 GHz | Not Specified | | | 0.4 dB MAX | 1 |
| 26286-3932 | WG26 WR12 R740 | Common port | UG-387/U compatible | 0 Hz to 69.5 GHz | 1.5 MAX | 0.7 dB MAX | 2 |

Short, Flush - Series 190

| Model | WG Size | Frequency band | Flange | QTY |
|----------------|----------------|----------------------|---------------|-----|
| 14190 | WG14 WR137 R70 | 5.38 GHz to 8.18 GHz | UDR70/CPR137F | 1 |
| 15190 | WG15 WR112 R84 | 6.58 GHz to 10 GHz | UBR84 | 3 |
| 15190 | WG15 WR112 R84 | 6.58 GHz to 10 GHz | UDR84 | 2 |
| 17190 | WG17 WR75 R120 | 9.84 GHz to 15 GHz | UBR120 | 2 |
| 19190 | WG19 WR51 R180 | 14.5 GHz to 22 GHz | UBR180 | 3 |
| 20190-10321\AL | WG20 WR42 R220 | 17.6 GHz to 26.7 GHz | UBR220 | 4 |

Short, Flush, Bronze - Series 191

| Model | WG Size | Frequency band | Flange | QTY |
|-----------|----------------|----------------------|----------------|-----|
| 12191 | WG12 WR187 R48 | 3.94 GHz to 5.99 GHz | UDR48 | 1 |
| 14191 | WG14 WR137 R70 | 5.38 GHz to 8.18 GHz | CPR137F | 1 |
| 15191 | WG15 WR112 R84 | 6.58 GHz to 10 GHz | UBR84 | 2 |
| 16191 | WG16 WR90 R100 | 8.2 GHz to 12.5 GHz | UBR100 | 3 |
| 17191 | WG17 WR75 R120 | 9.84 GHz to 15 GHz | UBR120 | 2 |
| 18191 | WG18 WR62 R140 | 11.9 GHz to 18 GHz | UBR140 | 1 |
| 20191 | WG20 WR42 R220 | 17.6 GHz to 26.7 GHz | UBR220 | 1 |
| 21191 | WG21 WR34 R260 | 21.7 GHz to 33 GHz | UBR260 | 2 |
| 23191 | WG23 WR22 R400 | 33 GHz to 50.1 GHz | UG383/U | 3 |
| 23191 | WG23 WR22 R400 | 33 GHz to 50.1 GHz | GP798 | 2 |
| 24191 | WG24 WR19 R500 | 39.3 GHz to 59.7 GHz | UG-383/U | 1 |
| 25191 | WG25 WR15 R620 | 49.9 GHz to 75.8 GHz | UG-385/U | 1 |
| 25191 | WG25 WR15 R620 | 49.9 GHz to 75.8 GHz | 1785.2a | 2 |
| 26191 | WG26 WR12 R740 | 60.5 GHz to 92 GHz | UG-387/U | 3 |
| 26191 | WG26 WR12 R740 | 60.5 GHz to 92 GHz | 1785.2a | 2 |
| 27191 | WG27 WR10 R900 | 73.8 GHz to 112 GHz | UG-387/U | 1 |
| 27191 | WG27 WR10 R900 | 73.8 GHz to 112 GHz | 1785.2a | 2 |
| 32191 | WG32 -- R2600 | 217 GHz to 330 GHz | 1785-2a | 1 |
| 570191 | WM-570 --- --- | 330 GHz to 500 GHz | 1785-2a | 1 |
| 570191-AA | WM-570 --- --- | 330 GHz to 500 GHz | UG387/U-Mod-PF | 1 |

Short, Flush, Precision Grade - Series 192

| Model | WG Size | Frequency band | Flange | QTY |
|-------|----------------|----------------------|----------------|-----|
| 15192 | WG15 WR112 R84 | 6.58 GHz to 10 GHz | UBR84 | 1 |
| 17192 | WG17 WR75 R120 | 9.84 GHz to 15 GHz | UBR120 | 2 |
| 17192 | WG17 WR75 R120 | 9.84 GHz to 15 GHz | E0006-65 | 2 |
| 19192 | WG19 WR51 R180 | 14.5 GHz to 22 GHz | UBR180 | 1 |
| 22192 | WG22 WR28 R320 | 26.4 GHz to 40.1 GHz | UG-599/U | 4 |
| 24192 | WG24 WR19 R500 | 39.3 GHz to 60 GHz | UG-383/U | 3 |
| 25192 | WG25 WR15 R620 | 49.9 GHz to 75.8 GHz | UG-385/U | 5 |
| 27192 | WG27 WR10 R900 | 73.8 GHz to 112 GHz | UG-387/U-Mod | 4 |
| 29192 | WG29 WR6 R1400 | 110 GHz to 173 GHz | UG-387/U-Mod | 3 |
| 30192 | WG30 WR5 R1800 | 140 GHz to 220 GHz | UG387/U-Mod-PF | 3 |

Transitions, Tapered Waveguide to Waveguide - Series 000

| Model | WG Size | Flange (port 1) | Flange (port 2) | QTY |
|----------|----------------|-----------------|-----------------|-----|
| 27000-28 | WG27 WR10 R900 | UG-387/U-Mod | UG-387/U-Mod | 3 |
| 27000-29 | WG27 WR10 R900 | UG-387/U-Mod | UG-387/U-Mod | 1 |

Adaptor, Waveguide to Coax, Bronze Grade - Series 091

| Model | WG Size | Frequency band | Flange | Connector | VSWR | QTY |
|------------|----------------|----------------------|-------------|-------------------------|----------|-----|
| 16091-KF70 | WG16 WR90 R100 | 8.2 GHz to 12.5 GHz | UBR100-PF | K type Female | 1.12 MAX | 2 |
| 21091-KF70 | WG21 WR34 R260 | 21.7 GHz to 33 GHz | UBR260-PF | K Female | 1.25 MAX | 2 |
| 22091 | WG22 WR28 R320 | 26.4 GHz to 40.1 GHz | UG-599/U-PF | K Female | 1.2 MAX | 1 |
| 23091-TF70 | WG23 WR22 R400 | 33 GHz to 50.1 GHz | GP798-PF | 2.4mm Compatible female | 1.30 MAX | 2 |

Adaptor, Waveguide to Coax - Series 093

| Model | WG Size | Frequency band | Flange | Connector | VSWR | QTY |
|------------|----------------|----------------------|---------|-------------------------|----------|-----|
| 22093-KF20 | WG22 WR28 R320 | 26.4 GHz to 40.1 GHz | UG599/U | K Female | 1.20 MAX | 16 |
| 23093-TF30 | WG23 WR22 R400 | 33 GHz to 50.1 GHz | UG383/U | 2.4mm Compatible female | 1.4 MAX | 3 |

Adaptor, Waveguide to Coax - Series 094

| Model | WG Size | Frequency band | Flange | Connector | VSWR | QTY |
|---------------|----------------|----------------------|----------|---------------|----------|-----|
| 14094-NF10 | WG14 WR137 R70 | 5.38 GHz to 8.18 GHz | UDR70 | N Female | 1.10 MAX | 3 |
| 14094-NF10 | WG14 WR137 R70 | 5.38 GHz to 8.18 GHz | UAR70 | N Female | 1.10 MAX | 6 |
| 14094-SF40 | WG14 WR137 R70 | 5.38 GHz to 8.18 GHz | UDR70 | SMA Female | 1.15 MAX | 9 |
| 14094-SF40 | WG14 WR137 R70 | 5.38 GHz to 8.18 GHz | CPR137F | SMA Female | 1.15 MAX | 6 |
| 15094-SF40 | WG15 WR112 R84 | 6.58 GHz to 10 GHz | UBR84 | SMA Female | 1.12 MAX | 13 |
| 16094-NF10 | WG16 WR90 R100 | 8.2 GHz to 12.5 GHz | UBR100 | N Female | 1.12 MAX | 6 |
| 16094-SF40 | WG16 WR90 R100 | 8.2 GHz to 12.5 GHz | UBR100 | SMA Female | 1.12 MAX | 1 |
| 17094-SF40 | WG17 WR75 R120 | 9.84 GHz to 15 GHz | UBR120 | SMA Female | 1.12 MAX | 40 |
| 17094-SF40 | WG17 WR75 R120 | 9.84 GHz to 15 GHz | UDR120 | SMA Female | 1.12 MAX | 10 |
| 18094-SF40 | WG18 WR62 R140 | 11.9 GHz to 18 GHz | UBR140 | SMA Female | 1.2 MAX | 25 |
| 18094-KF20 | WG18 WR62 R140 | 11.9 GHz to 18 GHz | UBR140 | K Female | 1.10 MAX | 1 |
| 18094-NF10 | WG18 WR62 R140 | 11.9 GHz to 18 GHz | UBR140 | N Female | 1.12 MAX | 6 |
| 19094-SF40 | WG19 WR51 R180 | 14.5 GHz to 22 GHz | UBR180 | SMA Female | 1.20 MAX | 4 |
| 19094-KF20 | WG19 WR51 R180 | 14.5 GHz to 22 GHz | UBR180 | K Type Female | 1.10 MAX | 2 |
| 20094-KF20 | WG20 WR42 R220 | 17.6 GHz to 26.7 GHz | UBR220 | K Female | 1.10 MAX | 6 |
| 21094-KF20\AL | WG21 WR34 R260 | 21.7 GHz to 33 GHz | UBR260T | K Female | 1.15 MAX | 1 |
| 21094-KF20 | WG21 WR34 R260 | 21.7 GHz to 33 GHz | UBR260 | K Female | 1.15 MAX | 1 |
| 22094-KF20 | WG22 WR28 R320 | 26.4 GHz to 40.1 GHz | UG-599/U | K Female | 1.15 MAX | 9 |
| 23094-VF50 | WG23 WR22 R400 | 33 GHz to 50.1 GHz | UG-383/U | 1.85mm Female | 1.30 MAX | 1 |

Adaptor, Waveguide to Coax, High Power - Series 097

| Model | WG Size | Frequency band | Flange | Connector | VSWR | Power (mean or CW) | QTY |
|--------------------|-----------------|------------------------|---------|------------|----------|--|-----|
| F11A097-XF10-12059 | WG11A WR229 R40 | 3.415 GHz to 3.915 GHz | T0033-1 | TNC Female | 1.25 MAX | 300 W MAX | 2 |
| 21097-KF20 | WG21 WR34 R260 | 21.7 GHz to 33 GHz | UBR260 | K female | 1.2 MAX | Greater of: 55W Max or determined on application | 5 |

Adaptor, Waveguide to Coax, Low PIM - Series 098

| Model | WG Size | Frequency band | Flange | Connector | PIM level | VSWR | QTY |
|------------|----------------|---------------------|---------------|-----------|----------------|---------|-----|
| 10098-NF10 | WG10 WR284 R32 | 2.6 GHz to 3.95 GHz | 1560/0010 PIM | N Female | Low PIM design | 1.1 MAX | 3 |

Adaptor, Waveguide to Coax, Compact - Series 099

| Model | WG Size | Frequency band | Flange | Connector | VSWR | QTY |
|------------|----------------|----------------------|--------|-----------|---------|-----|
| 20099-KF80 | WG20 WR42 R220 | 17.6 GHz to 26.7 GHz | UBR220 | K Female | 1.2 MAX | 3 |

End Launch Adaptor - Series 373

| Model | WG Size | Frequency band | Flange | Connector | VSWR | QTY |
|-----------------|----------------|----------------------|-----------------|-------------------------|----------|-----|
| 17373-KF20 | WG17 WR75 R120 | 9.84 GHz to 15 GHz | UBR120 Comp | K Female | 1.1 MAX | 2 |
| 18373-KF20 | WG18 WR62 R140 | 11.9 GHz to 18.5 GHz | UBR140 Comp | K Type Female | 1.1 MAX | 1 |
| 20373-KF20 | WG20 WR42 R220 | 17.6 GHz to 26.7 GHz | UBR220-PF | K Type Female | 1.13 MAX | 1 |
| 21373-TF31 | WG21 WR34 R260 | 19.7 GHz to 30 GHz | UBR260 | 2.4mm Compatible Female | 1.25 MAX | 2 |
| 21373-KF20-5766 | WG21 WR34 R260 | 21.7 GHz to 33 GHz | T0016-5 | K Female | 1.2 MAX | 2 |
| 21373-TF30-8917 | WG21 WR34 R260 | 21.7 GHz to 33 GHz | UBR260 | 2.4mm Compatible Female | 1.25 MAX | 2 |
| 22373-KF20 | WG22 WR28 R320 | 26.4 GHz to 40.1 GHz | UG-599/U | K Type Female | 1.15 MAX | 5 |
| 24373-VF51 | WG24 WR19 R500 | 39.3 GHz to 55 GHz | UG-383/U Comp | 1.85mm Female | 1.30 MAX | 2 |
| 25373-WM60-7435 | WG25 WR15 R620 | 49.9 GHz to 75.8 GHz | UG-387/U-PF | 1.0mm Male | 1.25 MAX | 4 |
| 26373-WF60 | WG26 WR12 R740 | 60 GHz to 92 GHz | UG-387/U-AC | 1.0mm Female | 1.35 MAX | 13 |
| 26373-WF60 | WG26 WR12 R740 | 60 GHz to 92 GHz | 1785-2a | 1.0mm Female | 1.35 MAX | 1 |
| 26373-WM60 | WG26 WR12 R740 | 60 GHz to 92 GHz | UG-387/U Comp | 1.0mm Male | 1.35 MAX | 1 |
| 26373-WF60-7337 | WG26 WR12 R740 | 60 GHz to 92 GHz | UG-387/U | 1.0mm Female | 1.25 MAX | 3 |
| 27373-WF60 | WG27 WR10 R900 | 73.8 GHz to 112 GHz | UG-387/U-Mod-AC | 1.0mm Female | 1.35 MAX | 12 |
| 27373-WF60 | WG27 WR10 R900 | 73.8 GHz to 112 GHz | UG-387/U-Mod-PF | 1.0mm Female | 1.35 MAX | 6 |
| 27373-WM60 | WG27 WR10 R900 | 73.8 GHz to 112 GHz | UG-387/U-Mod | 1.0mm Male | 1.35 MAX | 1 |
| 27373-WF60-7340 | WG27 WR10 R900 | 73.8 GHz to 112 GHz | UG-387/U-Mod-PF | 1.0mm Female | 1.20 MAX | 2 |
| WRD580373-NF10 | --- WRD580 --- | 5.8 GHz to 16 GHz | C1A | N Female | 1.20 MAX | 3 |
| WRD650373-NF10 | --- WRD650 --- | 6.5 GHz to 18 GHz | C1A | N Female | 1.20 MAX | 2 |

End Launch Adaptor, High Power - Series 377

| Model | WG Size | Frequency band | Flange | Connector | Power (mean or CW) | VSWR | QTY |
|---------------|----------------|---------------------|--------------------|-----------------|--------------------|---------|-----|
| 10377-DF-4370 | WG10 WR284 R32 | 2.45 GHz +/- 50 MHz | CPR284F (UG1725/U) | 7-16 DIN Female | 1.5 kW MIN | 1.1 MAX | 2 |
| 10377-DF10 | WG10 WR284 R32 | 2.6 GHz to 3.95 GHz | UG-1725/U | 7-16 DIN Female | 2.1 kW MAX | 1.1 MAX | 3 |

Transition, Rectangular to Circular - linear polarisation - Series 643

| Model | WG Size | Frequency band | Flange (port 1) | Flange (port 2) | Output Port diameter (H) | Length | QTY |
|-------|----------------|----------------------|-----------------|---|--------------------------|---------|-----|
| 20643 | WG20 WR42 R220 | 17.6 GHz to 26.7 GHz | UBR220 | 8 hole circular as per our catalogue 2010 | 10.925 mm | 77.5 mm | 1 |
| 22643 | WG22 WR28 R320 | 26.4 GHz to 40.1 GHz | UG-599/U | 8 hole circular | 7.25 mm | 51.5 mm | 1 |

Transition, Rectangular to Circular, With Resistive Vane - Series 644

| Model | WG Size | Frequency band | Flange (port 1) | Flange (port 2) | Output Port diameter (H) | Length | QTY |
|-------|----------------|---------------------|-----------------|---|--------------------------|---------|-----|
| 16644 | WG16 WR90 R100 | 8.2 GHz to 12.5 GHz | UBR100 | 8 hole circular as per our catalogue 2010 | 23.368 mm | 76 mm | 1 |
| 17644 | WG17 WR75 R120 | 9.84 GHz to 15 GHz | UBR120 | 8 hole circular as per Flann catalogue 2010 | 19.35 mm | 64 mm | 1 |
| 20644 | WG20 WR42 R220 | 18 GHz to 26.5 GHz | UBR220 | 8 hole circular as per Flann catalogue 2010 | 10.925 mm | 77.5 mm | 1 |

Flexible TEM Waveguide, Flange to Flange Adaptor - Series 350

| Model | WG Size | Frequency band | Flange (port 1) | Flange (port 2) | Length | VSWR | QTY |
|-------------|----------------|--------------------|-----------------|-----------------|--------|----------|-----|
| 24350-L500 | WG24 WR19 R500 | 39.3 GHz to 60 GHz | UG383/U-Mod | | 500 mm | 1.45 MAX | 1 |
| 26350-L200 | WG26 WR12 R740 | 60 GHz to 92 GHz | UG-387/U-AC | UG-387/U-AC | 200 mm | 1.65 MAX | 4 |
| 26350-L1700 | WG26 WR12 R740 | 60 GHz to 92 GHz | UG-387/U-AC | UG-387/U-AC | 1.7 m | 1.65 MAX | 1 |
| 26350-L350 | WG26 WR12 R740 | 60 GHz to 92 GHz | UG-387/U-AC | UG-387/U-AC | 350 mm | 1.65 MAX | 1 |

Waveguide Straight, Flange to Flange Adaptor - Series 441

| Model | WG Size | Frequency band | Flange (port 1) | Flange (port 2) | VSWR | QTY |
|-------------|----------------|--------------------|-----------------|-----------------|----------|-----|
| 23441 | WG23 WR22 R400 | 33 GHz to 50.1 GHz | UG-383/U | GP798-PF | 1.05 MAX | 8 |
| 32441-6803 | WG32 -- R2600 | 217 GHz to 330 GHz | UG-387/U-Mod-PF | UG-387/U-Mod-PF | 1.2 MAX | 2 |
| 570441-7532 | WM-570 --- --- | 330 GHz to 500 GHz | UG-387/U-Mod-PF | UG-387/U-Mod-PF | 1.35 MAX | 2 |

Waveguide Spacer, Flange to Flange Adaptor - Series 445

| Model | WG Size | Frequency band | Flange (port 1) | Flange (port 2) | Length | QTY |
|----------|----------------|----------------------|-----------------|-----------------|--------|-----|
| 17445-10 | WG17 WR75 R120 | 9.84 GHz to 15 GHz | UBR120 | UBR120 | 10 mm | 2 |
| 22445-05 | WG22 WR28 R320 | 26.4 GHz to 40.1 GHz | UG-599/U | UG-599/U | 5 mm | 1 |

Waveguide Straight (Ruggedised), Flange to Flange Adaptor - Series 448

| Model | WG Size | Frequency band | Flange (port 1) | Flange (port 2) | Overall Length | VSWR | QTY |
|------------|----------------|----------------------|-----------------|-----------------|----------------|----------|-----|
| 25448-AA | WG25 WR15 R620 | 49.9 GHz to 75.8 GHz | UG-385/U-PF | UG-385/U-PF | 50 mm | 1.05 MAX | 2 |
| 26448-AA | WG26 WR12 R740 | 60 GHz to 92 GHz | UG-387/U-PF | UG-387/U-PF | 50 mm | 1.05 MAX | 2 |
| 28448-9593 | WG28 WR8 R1200 | 92.3 GHz to 140 GHz | 1785.2a | 1785.2a | 35 mm | 1.13 MAX | 1 |
| 30448-AA | WG30 WR5 R1800 | 140 GHz to 220 GHz | UG-387/U-Mod-PF | UG-387/U-Mod-PF | 35 mm | 1.12 MAX | 1 |

Waveguide Twist - Series 450

| Model | WG Size | Frequency band | Flange | Twist direction | Twist angle | VSWR | QTY |
|------------|----------------|----------------------|-------------|-----------------|-------------|-----------|-----|
| 15450-90RH | WG15 WR112 R84 | 6.58 GHz to 10 GHz | UBR84 | Right hand | 90 ° | 1.03 MAX | 1 |
| 20450-90LH | WG20 WR42 R220 | 17.6 GHz to 26.7 GHz | UBR220 | Left hand | 90 ° | 1.045 MAX | 4 |
| 21450-90LH | WG21 WR34 R260 | 21.7 GHz to 33 GHz | UBR260 Type | Left hand | 90 ° | 1.05 MAX | 2 |
| 22450-90LH | WG22 WR28 R320 | 26.4 GHz to 40.1 GHz | UG-599/U | Left hand | 90 ° | 1.055 MAX | 3 |
| 25450-90LH | WG25 WR15 R620 | 49.9 GHz to 75.8 GHz | UG-385/U-AC | Left hand | 90 ° | 1.075 MAX | 1 |
| 26450-90LH | WG26 WR12 R740 | 60 GHz to 92 GHz | UG-387/U-AC | Left hand | 90 ° | 1.085 MAX | 2 |

Waveguide Twist, Compact - Series 451

| Model | WG Size | Frequency band | Flange (port 1) | Flange (port 2) | VSWR | QTY |
|-----------------|----------------|----------------------|-----------------|-----------------|------|-----|
| 22451-90LH-5854 | WG22 WR28 R320 | 26.4 GHz to 40.1 GHz | UG-599/U | | | 2 |

Waveguide Bend, E-Plane - Series 460

| Model | WG Size | Frequency band | Flange (port 1) | Flange (port 2) | Bend type VSWR | Bend angle | QTY |
|------------------|----------------|-----------------------|-----------------------|-----------------------|----------------|--------------------|-----|
| 14460-90 | WG14 WR137 R70 | 5.38 GHz to 8.2 GHz | UDR70 | UDR70 | 1.05 MAX | 90 ° | 1 |
| 17460-90-807 | WG17 WR75 R120 | 9.84 GHz to 15 GHz | UBR120 | UBR120 | 1.20 MAX | 90 ° | 4 |
| 17460-90\AL-8246 | WG17 WR75 R120 | 10.7 GHz to 12.75 GHz | UBR120 | Flann A0011-3 | 1.1 MAX | 90 ° | 1 |
| 18460-90-808 | WG18 WR62 R140 | 11.9 GHz to 18 GHz | UBR140 | UBR140 | 1.20 MAX | 90 ° | 1 |
| 19460-90\AL-8245 | WG19 WR51 R180 | 17.3 GHz to 20.2 GHz | UBR180 | Flann A0011-18 | 1.1 MAX | 90 ° | 1 |
| 20460-90 | WG20 WR42 R220 | 17.6 GHz to 26.7 GHz | UBR220 | UBR220 | 1.05 MAX | 90 ° | 1 |
| 21460-9759 | WG21 WR34 R260 | 29 GHz to 31 GHz | See Customer Document | See Customer Document | 1.5 MAX | See customer drg ° | 7 |
| 22460-10804 | WG22 WR28 R320 | 26.4 GHz to 40.1 GHz | CMT-0568-5876 | CMT-0568-5876 | 1.06 MAX | S joggle ° | 2 |
| 26460-90 | WG26 WR12 R740 | 60 GHz to 92 GHz | UG-387/U | UG-387/U | 1.09 MAX | 90 ° | 1 |
| 26460-90 | WG26 WR12 R740 | 60 GHz to 92 GHz | UG-387/U-AC | UG-387/U-AC | 1.09 MAX | 90 ° | 2 |
| 27460-90 | WG27 WR10 R900 | 73.8 GHz to 112 GHz | UG-387/U-Mod | UG-387/U-Mod | 1.11 MAX | 90 ° | 1 |
| 27460-9906 | WG27 WR10 R900 | 75 GHz to 110 GHz | UG-387/U | UG-387/U | 1.2 MAX | Not Specified | 2 |

Waveguide Bend, H-Plane - Series 470

| Model | WG Size | Frequency band | Flange (port 1) | Flange (port 2) | Bend type | Bend angle | VSWR | QTY |
|----------|----------------|----------------------|-----------------|-----------------|-----------|------------|-----------|-----|
| 20470-90 | WG20 WR42 R220 | 17.6 GHz to 26.7 GHz | UBR220 | UBR220 | Swept | 90 ° | 1.05 MAX | 1 |
| 21470-90 | WG21 WR34 R260 | 21.7 GHz to 33 GHz | UBR260 | UBR260 | Swept | 90 ° | 1.055 MAX | 2 |
| 25470-90 | WG25 WR15 R620 | 49.9 GHz to 75.8 GHz | UG-385/U-AC | UG-385/U-AC | Swept | 90 ° | 1.08 MAX | 3 |
| 26470-90 | WG26 WR12 R740 | 60 GHz to 92 GHz | UG-387/U | UG-387/U | Swept | 90 ° | 1.09 MAX | 1 |
| 26470-90 | WG26 WR12 R740 | 60 GHz to 92 GHz | UG387/U-AC | UG387/U-AC | Swept | 90 ° | 1.09 MAX | 2 |
| 27470-90 | WG27 WR10 R900 | 73.8 GHz to 112 GHz | UG-387/U-Mod-AC | UG-387/U-Mod-AC | Swept | 90 ° | 1.11 MAX | 1 |

Waveguide Assembly - Series 480

| Model | WG Size | Frequency band | Flange (port 1) | Flange (port 2) | VSWR | Insertion Loss | QTY |
|-------------|----------------|----------------|-----------------|-----------------|------|----------------|-----|
| 18480-10262 | WG18 WR62 R140 | | UG-541/U | | | | 2 |

Waveguide Assembly - Series 480

| Model | WG Size | Frequency band | Flange (port 1) | Flange (port 2) | VSWR | Insertion Loss | QTY |
|------------|----------------|--------------------|-----------------|-----------------|-----------------|----------------|-----|
| 26480-9420 | WG26 WR12 R740 | 60.5 GHz to 92 GHz | UG-387/U-AC | UG-387/U-AC | 1.07 Design aim | | 2 |

Seamless Semi-rigid Waveguide, Flange to Flange Adaptor - Series 562

| Model | WG Size | Frequency band | Flange (port 1) | Flange (port 2) | Length | VSWR | QTY |
|------------|----------------|----------------------|-----------------|-----------------|--------|----------|-----|
| 25562-L300 | WG25 WR15 R620 | 49.9 GHz to 75.8 GHz | UG-385/U-AC | UG-385/U-AC | 300 mm | 1.15 MAX | 6 |
| 25562-L350 | WG25 WR15 R620 | 49.9 GHz to 75.8 GHz | UG-385/U-AC | UG-385/U-AC | 350 mm | 1.15 MAX | 1 |
| 25562-L450 | WG25 WR15 R620 | 49.9 GHz to 75.8 GHz | UG-385/U-AC | UG-385/U-AC | 450 mm | 1.15 MAX | 5 |
| 26562-L350 | WG26 WR12 R740 | 60 GHz to 92 GHz | UG-387/U-AC | UG-387/U-AC | 350 mm | 1.18 MAX | 7 |
| 26562-L450 | WG26 WR12 R740 | 60 GHz to 92 GHz | UG-387/U-AC | UG-387/U-AC | 450 mm | 1.18 MAX | 20 |
| 27562-L300 | WG27 WR10 R900 | 73.8 GHz to 112 GHz | UG-387/U-Mod-AC | UG-387/U-Mod-AC | 300 mm | 1.23 MAX | 1 |
| 27562-L150 | WG27 WR10 R900 | 73.8 GHz to 112 GHz | UG-387/U-M-AC | UG-387/U-M-AC | 150 mm | 1.23 MAX | 1 |

Mismatch, Metrology Grade - Series 297

| Model | WG Size | Frequency band | Flange | VSWR | QTY |
|----------|----------------|--------------------|----------------|------|-----|
| 29297-05 | WG29 WR6 R1400 | 114 GHz to 173 GHz | UG387/U-Mod-PF | 2.0 | 1 |

Waveguide Section, Bronze Grade - Series 440

| Model | WG Size | Frequency band | Flange | Length | WG aperture tolerance (±) | QTY |
|-------|----------------|----------------------|---------------|-------------------|---------------------------|-----|
| 14440 | WG14 WR137 R70 | 5.38 GHz to 8.18 GHz | UAR70-PF | 236 mm +/- 80 um | 35 um MAX | 1 |
| 15440 | WG15 WR112 R84 | 6.58 GHz to 10 GHz | UBR84-PF | 192 mm +/- 500 um | 30 um MAX | 1 |
| 16440 | WG16 WR90 R100 | 8.2 GHz to 12.5 GHz | UBR100-PF | 154 mm +/- 60 um | 20 um MAX | 1 |
| 17440 | WG17 WR75 R120 | 9.84 GHz to 15 GHz | UBR120-PF | 128 mm | 20 um MAX | 1 |
| 18440 | WG18 WR62 R140 | 11.9 GHz to 18 GHz | UBR140-PF | 107 mm +/- 50 um | 18 um MAX | 1 |
| 19440 | WG19 WR51 R180 | 14.5 GHz to 22 GHz | UBR180-PF | 71 mm +/- 30 um | 15 um MAX | 1 |
| 20440 | WG20 WR42 R220 | 17.6 GHz to 26.7 GHz | UBR220-PF | 71 mm +/- 30 um | 15 um MAX | 1 |
| 23440 | WG23 WR22 R400 | 33 GHz to 50.1 GHz | GP798-PF | 46 mm +/- 20 um | 15 um MAX | 1 |
| 27440 | WG27 WR10 R900 | 73.8 GHz to 112 GHz | UG-387/U-M-PF | 35 mm +/- 500 um | 15 um MAX | 1 |

Waveguide Section, Silver Grade - Series 442

| Model | WG Size | Frequency band | Flange (port 1) | Length | WG aperture tolerance (±) | QTY |
|-------|----------------|----------------------|-----------------|------------------|---------------------------|-----|
| 16442 | WG16 WR90 R100 | 8.2 GHz to 12.5 GHz | UBR100-PF | 154 mm +/- 30 nm | 10 um MAX | 2 |
| 17442 | WG17 WR75 R120 | 9.84 GHz to 15 GHz | UBR120-PF | 128 mm +/- 30 um | 10 um MAX | 1 |
| 20442 | WG20 WR42 R220 | 17.6 GHz to 26.7 GHz | UBR220-PF | 71 mm +/- 0 m | 10 um MAX | 1 |
| 23442 | WG23 WR22 R400 | 33 GHz to 50.1 GHz | UG-383/U-PF | 46 mm +/- 10 um | 10 um MAX | 1 |
| 25442 | WG25 WR15 R620 | 49.9 GHz to 75.8 GHz | UG-385/U-PF | 35 mm +/- 10 um | 10 um MAX | 1 |

Waveguide Section, Metrology Grade - Series 443

| Model | WG Size | Frequency band | Flange | Length | WG aperture tolerance (±) | QTY |
|-------|----------------|----------------------|-------------|------------------|---------------------------|-----|
| 18443 | WG18 WR62 R140 | 11.9 GHz to 18 GHz | UBR140-PF | 107 mm +/- 12 um | 5 um MAX | 1 |
| 20443 | WG20 WR42 R220 | 17.6 GHz to 26.7 GHz | UBR220-PF | 71 mm | 5 um MAX | 1 |
| 20443 | WG20 WR42 R220 | 17.6 GHz to 26.7 GHz | UG-595/U-PF | 71 mm | 5 um MAX | 1 |
| 22443 | WG22 WR28 R320 | 26.4 GHz to 40.1 GHz | UG-599/U-PF | 60 mm | 5 um MAX | 1 |

Offset, Bronze - Series 491

| Model | WG Size | Frequency band | Flange | Length | QTY |
|---------------|----------------|----------------------|-----------------|---------------------|-----|
| 12491-02 | WG12 WR187 R48 | 3.94 GHz to 5.99 GHz | UAR48-PF | 20.102 mm +/- 50 um | 1 |
| 15491-01 | WG15 WR112 R84 | 6.58 GHz to 10 GHz | UBR84-PF | 6.016 mm +/- 267 um | 1 |
| 16491-02 | WG16 WR90 R100 | 8.2 GHz to 12.5 GHz | UBR100-PF | 9.63 mm +/- 30 um | 3 |
| 16491-01 | WG16 WR90 R100 | 8.2 GHz to 12.5 GHz | UBR100-PF | 4.815 mm +/- 30 um | 1 |
| 18491-02-4095 | WG18 WR62 R140 | 11.9 GHz to 18 GHz | WR62Imperial | 6.668 mm +/- 30 um | 5 |
| 18491-01 | WG18 WR62 R140 | 11.9 GHz to 18 GHz | UBR140-PF | 3.334 mm +/- 25 um | 1 |
| 19491-02 | WG19 WR51 R180 | 14.5 GHz to 22 GHz | UBR180-PF | 5.461 mm +/- 25 um | 1 |
| 20491-03 | WG20 WR42 R220 | 17.6 GHz to 26.7 GHz | UBR220-PF | 6.752 mm +/- 20 um | 1 |
| 23491-02 | WG23 WR22 R400 | 33 GHz to 50.1 GHz | UG-383/U-PF | 2.399 mm +/- 20 um | 1 |
| 23491-01 | WG23 WR22 R400 | 33 GHz to 50.1 GHz | UG-383/U-PF | 1.199 mm +/- 20 um | 1 |
| 23491-02 | WG23 WR22 R400 | 33 GHz to 50.1 GHz | GP798-PF | 2.399 mm +/- 20 um | 1 |
| 25491-02 | WG25 WR15 R620 | 49.9 GHz to 75.8 GHz | UG-385/U-PF | 1.587 mm +/- 20 um | 1 |
| 25491-01 | WG25 WR15 R620 | 49.9 GHz to 75.8 GHz | UG-385/U-PF | 793 um +/- 20 um | 2 |
| 25491-03 | WG25 WR15 R620 | 49.9 GHz to 75.8 GHz | UG-385/U-PF | 2.38 mm +/- 20 um | 1 |
| 26491-02 | WG26 WR12 R740 | 60.5 GHz to 92 GHz | 1785-2a | 1.308 um +/- 20 um | 1 |
| 26491-03 | WG26 WR12 R740 | 60.5 GHz to 92 GHz | UG-387/U-PF | 1.963 mm +/- 20 um | 1 |
| 26491-01 | WG26 WR12 R740 | 60.5 GHz to 92 GHz | UG-387/U-PF | 654 um +/- 20 um | 1 |
| 27491-01 | WG27 WR10 R900 | 73.8 GHz to 112 GHz | UG-387/U-Mod-PF | 537 um | 2 |
| 27491-03 | WG27 WR10 R900 | 73.8 GHz to 112 GHz | UG-387/U-Mod-PF | 1.612 um | 1 |
| 27491-02 | WG27 WR10 R900 | 73.8 GHz to 112 GHz | 1785.2a | 1.074 mm | 3 |
| 28491-N1 | WG28 WR8 R1200 | 92.3 GHz to 140 GHz | UG-387/U-Mod-PF | | 4 |
| 28491-N2 | WG28 WR8 R1200 | 92.3 GHz to 140 GHz | UG-387/U-Mod-PF | | 3 |
| 29491-N1 | WG29 WR6 R1400 | 110 GHz to 131 GHz | UG-387/U-Mod-PF | | 2 |
| 29491-N2 | WG29 WR6 R1400 | 131 GHz to 173 GHz | UG-387/U-Mod-PF | | 2 |
| 29491-10380 | WG29 WR6 R1400 | 114 GHz to 173 GHz | 1785-2a | | 1 |
| 29491-02 | WG29 WR6 R1400 | 114 GHz to 173 GHz | 1785-2a | | 4 |
| 30491-02 | WG30 WR5 R1800 | 145 GHz to 220 GHz | 1785-2a | | 2 |
| 32491-N1 | WG32 -- R2600 | 220 GHz to 264 GHz | UG-387/U-Mod-PF | | 3 |
| 32491-N1 | WG32 -- R2600 | 220 GHz to 264 GHz | 1785-2a | | 1 |
| 32491-N2 | WG32 -- R2600 | 246 GHz to 325 GHz | UG-387/U-Mod-PF | | 2 |
| 32491-12127 | WG32 -- R2600 | 220 GHz to 325 GHz | 1785-2a | 368.3 um +/- 20 um | 1 |
| 570491-N2 | WM-570 --- --- | 330 GHz to 500 GHz | 1785-2a | 1.33 mm +/- 10 um | 1 |
| 570491-N3 | WM-570 --- --- | 330 GHz to 500 GHz | 1785-2a | 1.02 mm +/- 10 um | 3 |
| 570491-00K | WM-570 --- --- | 330 GHz to 500 GHz | IEEE 17.85-2A | 0 m +/- 0 m | 4 |
| 570491-N1-AA | WM-570 --- --- | 330 GHz to 500 GHz | UG387/U-Mod-PF | 1.74 mm +/- 10 um | 2 |
| 570491-N2-AA | WM-570 --- --- | 330 GHz to 500 GHz | UG387/U-Mod-PF | 1.33 mm +/- 10 um | 2 |
| 570491-N3-AA | WM-570 --- --- | 330 GHz to 500 GHz | UG387/U-Mod-PF | 1.02 mm +/- 10 um | 2 |

Offset, Precision Grade - Series 492

| Model | WG Size | Frequency band | Flange | Length | QTY |
|----------|----------------|--------------------|----------|---------------------|-----|
| 15492-01 | WG15 WR112 R84 | 6.58 GHz to 10 GHz | UBR84-PF | 6.016 mm +/- 15 um | 3 |
| 15492-03 | WG15 WR112 R84 | 6.58 GHz to 10 GHz | UBR84-PF | 18.048 mm +/- 15 um | 1 |

Offset, Precision Grade - Series 492

| Model | WG Size | Frequency band | Flange | Length | QTY |
|------------|----------------|----------------------|-----------------|--------------------|-----|
| 18492-01 | WG18 WR62 R140 | 11.9 GHz to 18 GHz | UBR140-PF | 3.334 mm +/- 10 um | 1 |
| 18492-03 | WG18 WR62 R140 | 11.9 GHz to 18 GHz | UBR140-PF | 10.003 mm | 1 |
| 21492-03 | WG21 WR34 R260 | 21.7 GHz to 33 GHz | UBR260-PF | 5.472 mm | 1 |
| 22492-03 | WG22 WR28 R320 | 26.4 GHz to 40.1 GHz | UG-599/U-PF | 4.496 mm +/- 10 um | 1 |
| 23492-01 | WG23 WR22 R400 | 33 GHz to 50.1 GHz | UG-383/U-PF | 1.199 mm +/- 10 um | 4 |
| 24492-02 | WG24 WR19 R500 | 39.3 GHz to 60 GHz | UG-383/U-PF | 2.014 mm | 3 |
| 25492-02 | WG25 WR15 R620 | 49.9 GHz to 75.8 GHz | UG-385/U-PF | 1.587 mm +/- 30 um | 2 |
| 27492-02 | WG27 WR10 R900 | 73.8 GHz to 112 GHz | UG-387/U-M-PF | 1.074 mm +/- 20 um | 1 |
| 27492-01K | WG27 WR10 R900 | 73.8 GHz to 112 GHz | UG-387/U-M-PF | 2.537 mm +/- 24 um | 1 |
| 29492-00K | WG29 WR6 R1400 | 114 GHz to 173 GHz | UG-387/U-M-PF | 1 mm +/- 10 um | 1 |
| 32492-N2 | WG32 -- R2600 | 246 GHz to 325 GHz | UG-387/U-Mod-PF | 1 mm +/- 10 um | 3 |
| 32492-6875 | WG32 -- R2600 | 220 GHz to 325 GHz | UG-387/U-Mod-PF | 368.3 um +/- 10 um | 4 |

Offset, Metrology Grade - Series 493

| Model | WG Size | Frequency band | Flange | Length | QTY |
|----------|----------------|----------------------|-------------|----------|-----|
| 16493-02 | WG16 WR90 R100 | 8.2 GHz to 12.5 GHz | UBR100-PF | 9.63 mm | 1 |
| 20493-02 | WG20 WR42 R220 | 17.6 GHz to 26.7 GHz | UG-595/U-PF | 4.501 mm | 1 |
| 22493-01 | WG22 WR28 R320 | 26.4 GHz to 40.1 GHz | UG-599/U-PF | 1.499 mm | 1 |
| 22493-03 | WG22 WR28 R320 | 26.4 GHz to 40.1 GHz | UG-599/U-PF | 4.496 mm | 1 |
| 22493-02 | WG22 WR28 R320 | 26.4 GHz to 40.1 GHz | UG-599/U-PF | 2.997 mm | 1 |

Control Processor - Series CP2021

| Model | WG Size | Port 1 Interface (Flange, Connector etc) | Port 2 Interface (Flange, Connector etc) | Port 3 Interface (Flange, Connector etc) | Port 4 Interface (Flange, Connector etc) | QTY |
|--------|---------------|--|--|--|--|-----|
| CP2021 | NOT SPECIFIED | IEEE488 bus (GPIB) | | 25 pin D type connector | 25 pin D type connector | 4 |

Screw Tuner - Series 160

| Model | WG Size | Frequency band | Flange (port 1) | Flange (port 2) | QTY |
|-------|----------------|--------------------|-----------------|-----------------|-----|
| 19160 | WG19 WR51 R180 | 14.5 GHz to 22 GHz | UBR180 | UBR180 | 1 |

Screw Tuner, System Grade - Series 161

| Model | WG Size | Frequency band | Flange (port 1) | Flange (port 2) | Housing VSWR | Tuneable VSWR | QTY |
|-------|----------------|---------------------|-----------------|-----------------|--------------|---------------|-----|
| 16161 | WG16 WR90 R100 | 8.2 GHz to 12.5 GHz | UBR100 | UBR100 | 1.036 MAX | 3.5 MIN | 1 |
| 18161 | WG18 WR62 R140 | 11.9 GHz to 18 GHz | UBR140 | UBR140 | 1.036 MAX | 3.5 MIN | 1 |

Septum Polarizer - Series 782

| Model | WG Size | Common port frequency band | Common Port Interface (Flange, Connector etc) | In-line Port Interface (Flange, Connector etc) | Ortho Port Interface (Flange, Connector etc) | Cross Polarization | Insertion Loss | QTY |
|------------|----------------|----------------------------|---|--|--|--------------------|----------------|-----|
| 26782-9246 | WG26 WR12 R740 | 71 GHz to 86 GHz | | TBD | TBD | 28 dB | 0.5 dB MAX | 2 |