

# Dual Crossguide Couplers



## Dual Crossguide Description

- 1.7 - 18.0 GHz High Performance
- 1.15 Typical VSWR
- SMA & Type N
- Male or Female Connectors
- Mid-Band Nominal Coupling Values of 20-50 are standard.
- Standard Material Copper or Aluminum (6061) Waveguide
- 10-20DB of Directivity is Typical

Note all DCGC models can be manufactured differently than what is posted on this page to meet customer requirements. Please contact us to go over your specific requirements.

We offer a flat black paint finish that is standard with all our units. We also offer additional upgrades on paint upon request.

## WAVEGUIDE FLANGES:

**A** = AMC QUICK DISCONNECT (MALE) PATENT PROTECTED

**B** = AMC QUICK DISCONNECT (FEMALE) PATENT PROTECTED

**C** = MODIFIED CPR STYLE - GROOVE ONLY, NO CONTACTS (ALL CLEAR HOLES)

**D** = MODIFIED CPR STYLE - GROOVE ONLY, NO CONTACTS (ALL TAP HOLES)

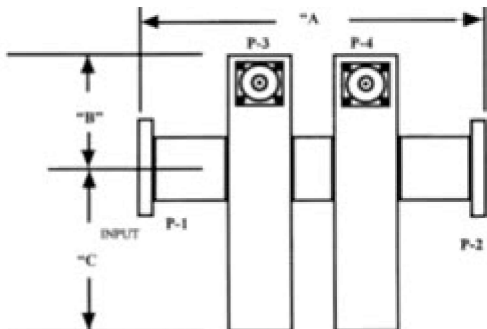
**E** = CPR STYLE FLAT (ALL TAP HOLES)

**F** = CPR STYLE FLAT (CLEAR HOLES)

<b>G</b> = CPR STYLE CONTACT GROOVED (CLEAR HOLES)
<b>H</b> = CPR STYLE CONTACT GROOVED (ALL TAP HOLES)
<b>I</b> = CMR (CLEAR HOLES)
<b>J</b> = CMR (ALT/ TAP,/CLEAR HOLES)
<b>K</b> = CMR (ALL TAP HOLES)
<b>L</b> = UG COVER (CLEAR HOLES)
<b>M</b> = UG COVER (ALL TAP HOLES)
<b>N</b> = UG COVER GROOVED (ALL CLEAR HOLES)
<b>O</b> = UG CHOKE (CLEAR HOLES)
<b>P</b> = UG CHOKE (ALL TAP HOLES)
<b>Q</b> = UG COVER GROOVED (ALL TAP HOLES)
<b>R</b> = UBR
<b>S</b> = PBR
<b>T</b> = CBR
<b>U</b> = UDR
<b>V</b> = PDR
<b>W</b> = CDR
<b>X</b> = SPECIAL FLANGES (CUSTOMER TO SPECIFY)

## AMC P-3 & P-4 Type Codes:

<b>N</b> = Type N Coax. Conn. - Female
<b>NM</b> = Type N Coax, Conn. - Male
<b>S</b> = Type SMA Coax. Conn.- Female
<b>SM</b> = Type SMA Coax. Conn. - Male
<b>Note:</b> Female Type N (N) and SMA (S) connectors are standard



WAVEGUIDE SIZE	FREQUENCY: GHZ	DIMENSION A	DIMENSION B	DIMENSION C
62	12.4 - 18.0	3.75	1.75	2.37
75	10.0 - 15.0	4	1.87	2.5
90	8.20 - 12.4	4.25	2	2.75
112	7.05 - 10.0	5.25	2.1	3
137	5.85 - 8.20	6	2.47	4
159	4.90 - 7.05	6.12	3	4
187	3.95 - 5.85	6.75	3.25	4.5
229	3.30 - 4.90	7.50	3.5	4.75
284	2.60 - 3.95	8.75	3.75	5

- Specify Operating Frequency.
- Return Loss (Main Arm) > 26dB.
- Return Loss (2nd Arms) > 19dB.
- Specify coupling direction (forward or reverse).
- Specify if pressurization is required.

**Note:** All DCGC models are made of Brass or Aluminum and include an iridite/ corrosion protection treatment. Flanges are unplated, iridited and polished. Finish is flat black. For other plating finishes, materials, or paint color requirements, please specify

### SAMPLE P/N: AMC-DCGC-137-F/F-S/S-40F20RB

MODEL NUMBER DCGC	WAVEGUIDE SIZE	FLANGE TYPE P1 + P2	CONNECTOR TYPE P3-P4	COUPLING VALUE DB	MATERIAL A=Aluminum B=Brass
AMC-DCGC	137	-F/F-	S/S	40F-20R	B

The above part number describes the following. WR137 dual crossguide coupler, with CPRF flanges on primary arm and type "sma" coax. connector on both cross axis arms. Coupling values, 40db forward, 20db reverse. Copper/Brass Materials. Note: All AMC-DCGC models are made of Copper/Brass or aluminum and include an iridite/corrosion protection treatment. Flanges are unplated. iridited and polished. Finish is flat black. For other plating finishes, material or paint color requirements, specify.



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