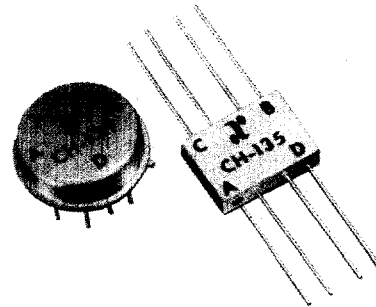




**MODELS**  
**CH-135/139**

**20 dB DIRECTIONAL COUPLERS**  
**10-500 MHz**

Constant Coupling — Within  $\pm 0.5$  dB Max  
30 dB Typical Midband Directivity  
Available in Flatpack (CH-135) and  
TO-8 (CH-139) Packages



### Guaranteed Specifications\*

(From  $-54^{\circ}\text{C}$  to  $+85^{\circ}\text{C}$ )

MODEL	CH-135	CH-139
Frequency Range	10-500	10-500 MHz
Coupling (Input to Output)	$20.3 \pm 0.7$	$20.0 \pm 1.0$ dB
Coupling Flatness	$\pm 0.4$	$\pm 0.5$ dB Max
VSWR (All Ports)	1.3:1	1.3:1 Max
Directivity (Both Directions)	20	17 dB Min
Main Line Loss**	0.5	0.6 dB Max

### Operating Characteristics

Input Power	3.0 Watts Max
Package Type	CH-135 Flatpack (FP-2) CH-139 Pin (TO-8-2)
(See pages 474 and 472 for physical dimensions.)	

#### Environmental

These units are designed to meet the environmental and screening requirements of Table 1A, page 496 of the Adams-Russell catalog.

#### Pin Configuration

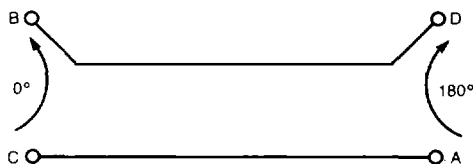
CH-135	C; P1, B; P4, A; P5, D; P8.
	Case and all other pins ground.
CH-139	A; P8, B; P2, C; P5, D; P11.
	All other pins are ground.

\*All specifications apply with 50 ohm source and load impedance.

This product contains elements protected by United States Patent Number 3,426,298.

\*\*Includes theoretical power split.

### Functional Diagram

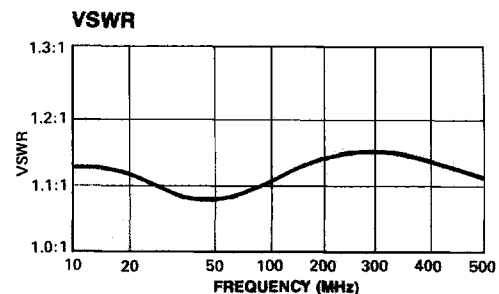
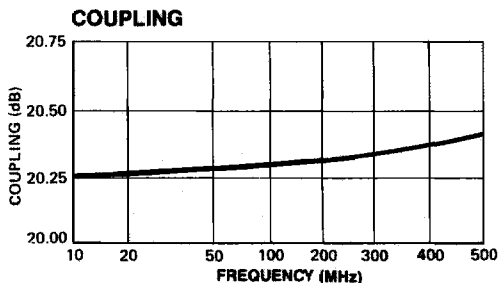
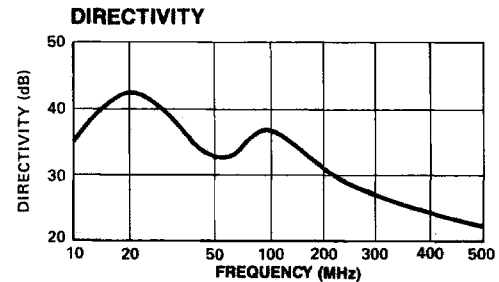
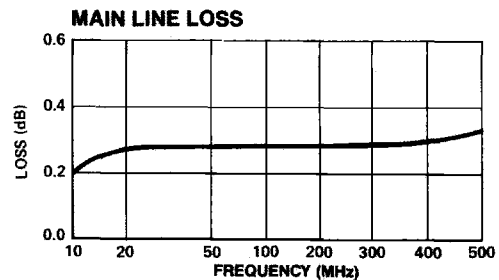


### Ordering Information

Model No.	Part No.	Connectors	Unit Price (5-9 Units)
CH-135	8349	Pin	\$49
CH-139	8839	Pin	49

Delivery is from stock.

### Typical Performance



**ANZAC**

**Make the Connection...**

80 Cambridge Street, Burlington, MA 01803 Fax (617) 273-1921

**Adams Russell**  
COMPONENTS GROUP

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