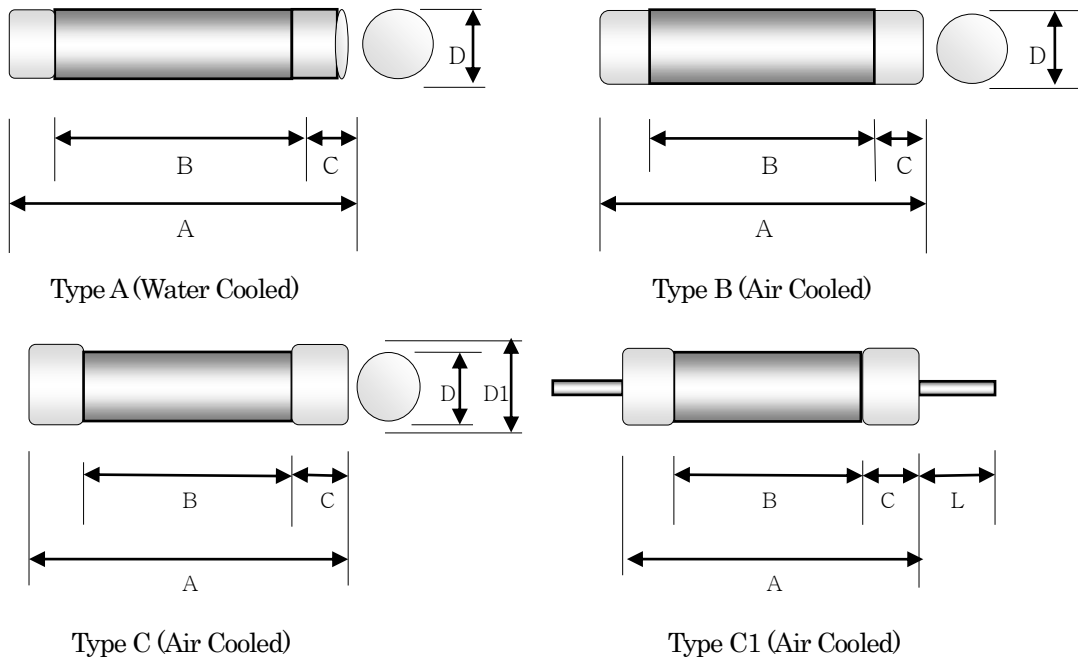


Product Specification	Part
High Voltage Power Resistors (Air / Water / Oil cooled)	CQH Series (NON Inductive)

1. CQH Cylinder Resistors is Non-Inductive available as Air & Water or Oil cooled.  
This type is designed to Air cooled Roads, Internal Water cooled Roads, Oil cooled Roads.

Voltage : 5KV to 50KV  
Power : 15W to 2000W  
Resistance : 50 ohm



2. Part Type Designations (Unit : mm)

Part	Type	A	B	C	D	D1	L
CQH60A	A	127.50	108.50	9.50	12.50		
CQH200A	A	228.50	203.50	12.50	19.50		
CQH300A	A	300.50	270.50	15.00	27.50		
CQH15B	B, C, C1	52.50	43.50	4.50	9.00	9.70	33.50
CQH30B	B, C, C1	85.50	76.50	4.50	9.00	9.70	33.50
CQH60B	B, C, C1	127.50	118.50	4.50	9.00	9.70	33.50

Note: Other size and resistance values available upon request.

### 3. Ordering Information

Part No.	Type	Voltage	Power	TCR	Resistance	Tolerance	Condition
CQH60A-500AG	A	5KV	60W	C (200ppm/°C)	50 ohm	±1%, 3%	
CQH200A-500AG	A	30KV	200W	C (200ppm/°C)	50 ohm	±1%, 3%	
CQH300A-500AG	A	50KV	300W	C (200ppm/°C)	50 ohm	±1%, 3%	
CQH15B-500AG	B	15KV	15W	C (200ppm/°C)	50 ohm	±1%, 3%	
CQH30B-500C	C	25KV	30W	C (200ppm/°C)	50 ohm	±1%, 3%	
CQH60B-500CL	C 1	50KV	60W	C (200ppm/°C)	50 ohm	±1%, 3%	

Note: Other size and resistance values available upon request.

### 4. Rating.

#### 4-1. Rating Power (Fig.1)

Resistors have power rating based on full load operation at terminals temperature from - 55°C to + 225°C. Operating power shall be derated as figure 2 in operating at excess of + 225°C of terminal temperature.

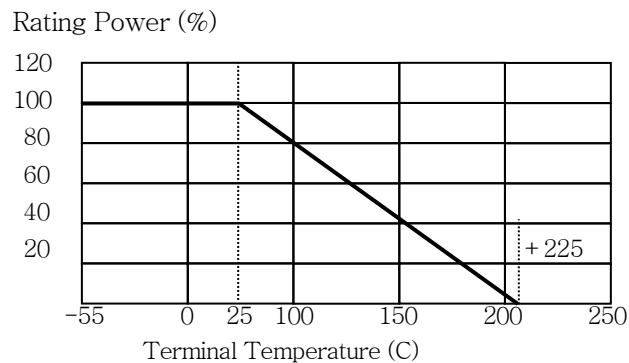


Fig.1

#### 4-2. General Electrical Specifications

Items	Specification	Condition
Part	CQH Series	
Rating Power	15W to 2000W	4-1
Resistance Values	50 ohm	
Voltage	5KV to 50KV	
VSWR(Max)	1.20 : 1	
Temp. Coefficient of Resistance.	±200ppm/°C	-55°C to +225°C
Tolerance of Resistance	±1%, 3%	

Note: Other size and resistance values available upon request.

## 5. Electrical and mechanical Specifications

Items	Specifications	Test Conditions
Operation Temp. Range	-55 to +225 °C	
Storage Temp. Range	-55 to +225 °C	
Withstanding Voltage	1,500 Volt	60 seconds.
Load Life	$\pm(1.0\% + 0.05 \text{ ohm})$	25°C 90min ON, 30min OFF, 1000hours.
Humidity	$\pm(1.0\% + 0.05 \text{ ohm})$	40°C 90-95% RH, DC 0.1W, 1000hours.
Temperature Cycle	$\pm(0.25\% + 0.05 \text{ ohm})$	-55°C 30min., +225°C 30min., 5cycles.
Soldering Heat	$\pm(0.25\% + 0.05 \text{ ohm})$	350 $\pm$ 5°C, 3seconds,
Solderability	Over 3/4 of surface	230 $\pm$ 5°C, 3seconds.
Insulation Resistance	Over 1000 Mohm	Between terminals and resistor body.
Vibration	$\pm(0.25\% + 0.05 \text{ ohm})$	

## 6. Quality Assurance

Cqtel shall be assure to the CiTEL customers of the resistors quality. Receiving fault report from the customer, analyzing the cause of fault and reporting of QA to the customer shall be obligation of Cqtel, because brand of the resistor and CQH series is right of CiTEL

## 7. Country of Origin

The resistors are produced at KOREA main factory of CiTEL Co., Ltd.