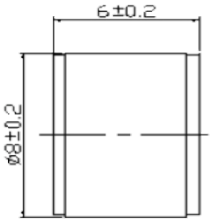
BENELEC

Innovative Radio Technology

Replaceable Gas Capsules

Part#	Breakdown Voltage (V)
176901	90
176902	230
176903	350
176904	600
176905	800
176906	1000



The **17690X** series replaceable Gas Capsules are designed for a high degree of surge protection. It operates on the gas physical principle of the highly effective arc discharge. The **17690X** series is used for protecting equipment for which higher voltage limits and holdover voltage are necessary. These gas capsules are for use with the Benelec **176210** Lightning Arrestor.

176210
Lightning Arrestor

Features

- ✓ Fast response time
- ✓ Suitable for direct strikes
- ✓ Stable performance over life
- ✓ Very low capacitance
- ✓ High insulation resistance

Approvals

- ✓ UL recognised: File Number E32624B
- ✓ Meets RoHS
- ✓ ITU Rec K12
- ✓ GB9043

Applications

- ✓ Communication lines
- ✓ CATV equipment
- ✓ Test equipment
- ✓ Data lines, power supply
- ✓ Base Station
- ✓ Medical electronics

Test Environment (@ 25°C)

Parameter	Min	Typ	Max	Unit
DC Breakdown Voltage	72	90	108	V
	184	230	276	
	280	350	420	
	480	600	720	
	640	800	960	
	800	1000	1200	
Insulation Resistance	$1*10^9$	-	-	Ω
Capacitance	-	-	1.5	pF
Climatic Category	IEC60068-1		40/90/21	
Operational Temperature	-40	-	+125	°C

Specifications

Parameter	Part Number						Unit
	176901	176902	176903	176904	176905	176906	
DC Breakdown Voltage (1)	72 ~ 108	195 ~ 265	297 ~ 403	480 ~ 720	640 ~ 960	800 ~ 1200	V
	80 ~ 120						%
Impulse Breakdown Voltage (2)	≤600	≤700	≤1000	≤1400	≤1450	≤1500	V
Insulation Resistance (3)	≥1*10⁹						Ω
Nominal AC Discharge Current (4)	20						A
Nom. Impulse Discharge Current (5)							
10 shots 8/20μs	20						kA
1 shot 8/20μs	25						kA
1 shot 10/350μs	4						kA
300 shots 10/1000μs	200						A
1500 shots 10/1000μs	10						A
Arc Voltage @ 1A	-15						V
Holdover Voltage	52	80	135				V
Weight	≤1.5						g

Remarks:

(1) At 100 V/s

(2) At 1kV/μs

(3) Except for 90V types measured at 50 VDC, other types are measured at 100 VDC

(4) 50 Hz, 1s, 10 shots

(5) For each test new gas discharge tube shall be used.

Performance Characteristics