

# HIGH RESPONSE INSULATOR

## High Response Insulator

Intellectual-property-rights registration No. 42798

## HR quartz insulator brings out the maximum performance from equipments.

Our audio-grade highly pure HR silica glass obtained by further refining the silica glass most ideal to vibration attained the unparalleled sound quality and sound stage reproduction as well as super high S/N ratio.

### High purity HR series 20x20mm

This most popular, long-term seller standard model matches all ranks of equipments commencing with loudspeakers.



Size / 20x20mm

Finish / Top and bottom : ground, Perimeter: transparent

OPT-1 HR/3P  
OPT-1 HR/4P  
OPT-1 HR/8P

### High purity HR series 20x10mm

This is the thin-shaped type standard model recommendable when the height matters.



Size / 20x10mm

Finish / Top and bottom : ground, Perimeter: transparent

OPT-1S HR/3P  
OPT-1S HR/4P  
OPT-1S HR/8P

### High purity HR series 12x10mm

This most reasonable model employs our particular HR quartz material. Best for vibration conditioning of small loudspeakers, power supply taps, etc.



Size / 12x10mm

Finish / Top and bottom : ground, Perimeter: transparent

SG-4 HR/3P  
SG-4 HR/4P

### Super-high polymer insulator

This insulator enables sound tuning independently or in combination with the HR quartz. The viscosity peculiar to polymer optimizes vibration absorption.



Material / super-high special polymer  
Process / HR physical processing  
Max load / 70kg (per piece)

Forming / machined  
Size / 50x5mm

HRI-5005

#### Specification table

	OPT-1 HR	OPT-1S HR	SG-4HR	HRI-5005
High purity HR quartz				Super-high polymer
Size	20 x 20mm	20 x 10mm	12 x 10mm	50 x 5mm
Shape	Cylinder	Cylinder	Cylinder	Cylinder
Harmonic construction				
Response speed				

Material / audio-grade high purity HR quartz

HG class / audio-grade super-high purity HG HR quartz

Resonance frequency / out of audible range (no coloration)

Max Load / 9500kg/cm2 (static theoretical value)

Specific gravity / 2.2g/cm3 (crystal 2.5-3.0, diamond 3.52)

Mohs hardness/7.0 (crystal 5.0, diamond 10)

HR Quartz is used altogether.

Sound quality, material quality, and specific gravity differ from the crystal of the other manufacturers. Be careful of an imitation.

### Super-purity HG HR series mirror finish 50x20mm

Size / 50x20mm  
Finish / super surface

OPT-100HG SS HR/1P  
OPT-100HG SS HR/3P  
OPT-100HG SS HR/4P



Our highest peak model in all aspects of capacity, finish, material quality, harmonic construction and vibration conditioning, brings out the maximum performance from your equipments. Best suited for your particular high-end system.

### Super-purity HG HR series mirror finish 50x10mm

Size / 50x10mm  
Finish / super surface

OPT-100HG-FLAT SS HR/1P  
OPT-100HG-FLAT SS HR/3P  
OPT-100HG-FLAT SS HR/4P



This highest peak model of thin-shaped type is recommendable for high-end audiophiles when the height matters.

### Super-purity HG HR series 50x20mm

Size / 50x20mm  
Finish / allover ground

OPT-100HG HR/1P  
OPT-100HG HR/3P  
OPT-100HG HR/4P



This highest peak model of usual finish is the long-term seller as a high-end user's standard.

### Super-purity HG HR series 50x10mm

Size / 50x10mm  
Finish / allover ground

OPT-100HG-FLAT HR/1P  
OPT-100HG-FLAT HR/3P  
OPT-100HG-FLAT HR/4P



This thin-shaped type highest peak model of ground finish is recommendable for high-end users when the height matters.

### Super-purity HG HR series 30x20mm

Size / 30x20mm  
Finish / allover ground

OPT-30HG20 HR/3P  
OPT-30HG20 HR/4P



This reasonable high-end model features the highest cost performance in the HG HR quartz series, employing an ideal size ratio and the material of the highest peak.

### Super-purity HG HR series 30x10mm

Size / 30x10mm  
Finish / allover ground

OPT-30HG HR/3P  
OPT-30HG HR/4P



This low-cost and most easy-to-use model realized by mass-producing HG HR quartz employs material of a highest peak.

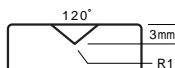
### Super-purity HG HR series Spike receptacle 30x10mm

Size / 30x10mm  
Finish / allover ground

OPT-30HG-PL HR/3P  
OPT-30HG-PL HR/4P



Spike receptacle model with very difficult processing called R1 to eliminate ringing noise at the spike tip almost to zero.



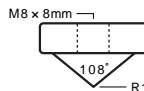
### Super-purity HG HR series Spike 30x18mm

Size / 30x18mm  
Finish / allover ground  
Max load / 20kg(per piece with PL)  
Accessory / M8x20mm high-hardness titanium stud bolt

OPT-30HG-SP HR/1P  
OPT-30HG-SP HR/3P  
OPT-30HG-SP HR/4P



The HG HR quartz spike with difficult R1 processing and M8 tap technology, advisable to use in combination with our PL.



### Base insulator

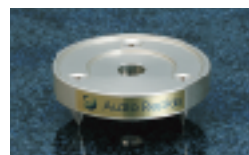
Material / The high-rigidity physical processing aluminum alloy for 7075 airplanes  
High-hardness stainless steel spike tip & screw

Forming / CNC machining  
Process / ULTRA SZ physical processing

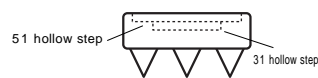
Size / 55mmx9mm  
(19mm including spike)

SPL-3050/3P

SPL-3050/4P



This model makes the cushiony floor such as a carpet completely rigid. Its three spikes firmly hold the floor. Combination with all the insulators of 30 and 50 is also possible.



#### Specification table

	OPT-100HG-SS HR	OPT-100HG-FLAT-SS HR	OPT-100HG HR	OPT-100HG-FLAT HR	OPT-30HG20 HR	OPT-30HG HR	OPT-30HG-PL HR	OPT-30HG-SP HR
Super-purity HG-HR quartz								
Machined structure								
Super surface (mirror) finish			—	—	—	—	—	—
Size	50 x 20mm	50 x 10mm	50 x 20mm	50 x 10mm	30 x 20mm	30 x 10mm	30 x 10mm	30 x 18mm
Shape	Cylinder	Cylinder	Cylinder	Cylinder	Cylinder	Cylinder	Cylindrical spike receptacle	Cone spike
Harmonic construction								
Response speed								