

DIAMOND  
MICROWAVE  
CHAMBERS LTD



POLYSTYRENE

HYBRID  
ABSORBERS

////// [www.dmcrl.com](http://www.dmcrl.com)

FOR EMC CHAMBERS

» Premium Quality  
30+ Years Electrical Performance

DMC Polystyrene Hybrid Absorbers are perfect choice for EMC chambers with impedance matched ferrite tiles for Broadband frequency range of operation from 30 MHz to 40 GHz

## DMC-PS-PY-HY

DMC premium quality high performance Polystyrene Hybrid Absorbers are made of moldig process and the State-of-the-art carbon synthesis process ensures extremely high uniformity of carbon powder density throughout the absorber. DMC-PS-PY-HY series polystyrene hybrid absorbers provide excellent performance in normal incidence and off angle incidence in EMI/EMC test chambers.

## FEATURES

- Broadband Frequency Range of Operation from 30 MHz to 40 GHz
- Made of molding process, closed cell structure and uniform carbon cell loading provides stable performance throughout product life
- Fire Retardant as per NRL-8093 tests 1, 2, 3, UL94 HF, GB8624-B2
- Maximum Service Temperature up to -50° to 70°
- Humidity 40% - 80%
- ROHS and REACH compliant
- Cleanroom equipment suitable per class 10000/ ISO 14644 Class 4
- Plug and pull installation, Long product life with excellent Electrical Performance
- Up to 30 years of electrical performance

### TYPICAL REFLECTIVITY AT NORMAL INCIDENCE OVER FREQUENCY RANGE IN -dB

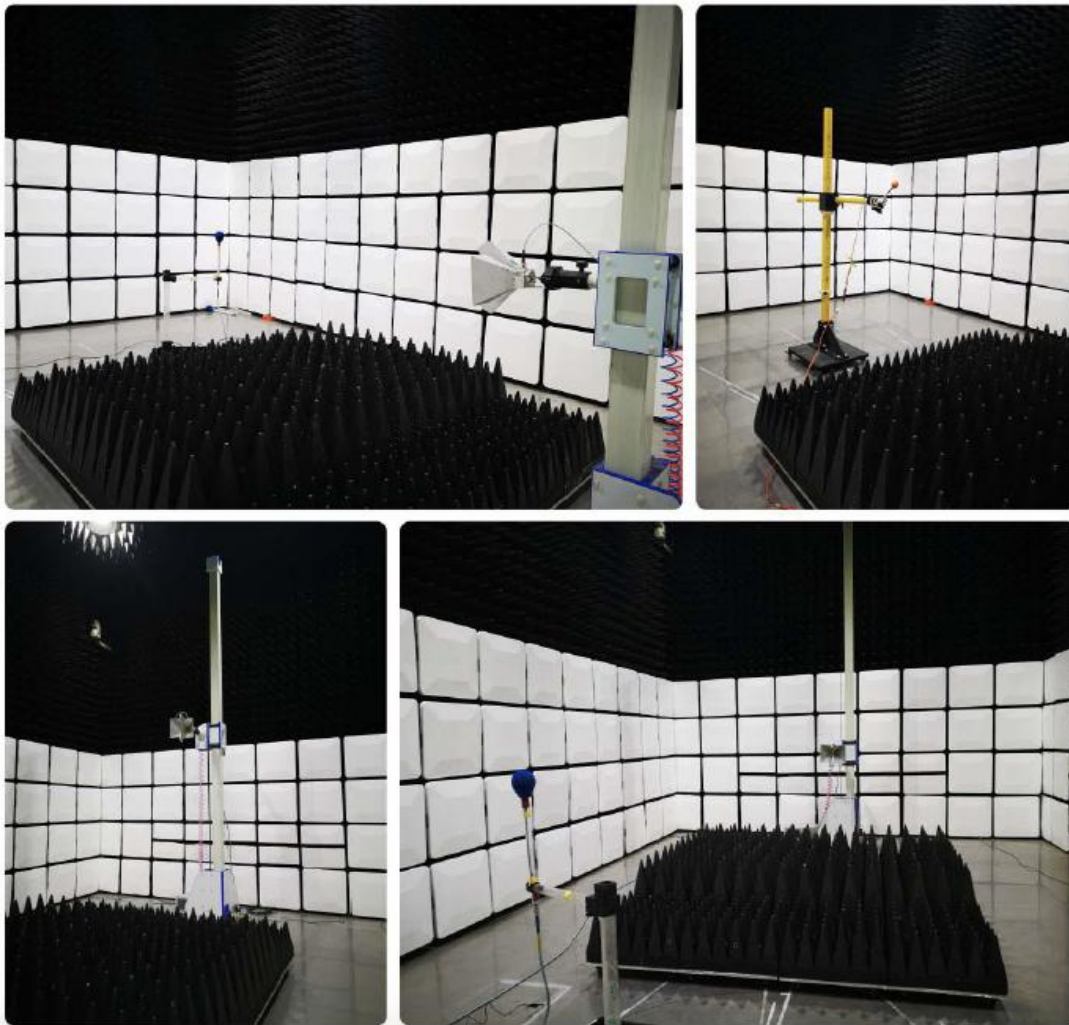
Model Number	30 MHz	50 MHz	100 MHz	500 MHz	1 GHz	3 GHz	5 GHz	10 GHz	18 GHz	40 GHz
DMC-PS-PY-HY-300	18	23	25	17	18	18	21	23	30	32
DMC-PS-PY-HY-500	20	24	26	19	21	22	25	28	33	35
DMC-PS-PY-HY-700	21	25	27	21	24	28	30	36	39	42

### PHYSICAL PROPERTIES (in mm)

Model Number	Overall Width	Overall Height	No of Tips	Weight in KG/m <sup>2</sup>
DMC-PS-PY-HY-300	600 x 600	300	36	2.00
DMC-PS-PY-HY-500	600 x 600	500	16	3.00
DMC-PS-PY-HY-700	600 x 600	700	9	4.50

Values shown are based on testing of laboratory test product and represent data that falls within normal range purposes. Construction standards and absorber mounting procedure defines accurate results. The given information is based on data and knowledge considered to be true and accurate and is offered for the user's consideration, investigation and verification but we don't warrant the results to be obtained.

# Pictures



## DIAMOND MICROWAVE CHAMBERS LTD

15, Fitzgerald Rd, Suite 200, Ottawa, ON, K2H 9G1

[www.dmcrcf.com](http://www.dmcrcf.com)

[sales@dmcrcf.com](mailto:sales@dmcrcf.com)

[support@dmcrcf.com](mailto:support@dmcrcf.com)

+1 (613) 915 5533

+1 (315) 602 2636