

DIAMOND
MICROWAVE
CHAMBERS LTD



POLYPROPYLENE

FLAT
ABSORBERS

- » Premium Quality
Excellent Performance and
Power handling capacity

////// www.dmcraf.com

FOR ANECHOIC CHAMBERS

High performance Expanded Polypropylene Flat absorbers for applying on corners of Anechoic chambers, to cover positioner and for Shielding cabinets

DMC-PP-FLT

DMC premium quality high performance Expanded Polypropylene Flat Absorbers are made of High density carbon impregnated polypropylene material. DMC-PP-FLT series microwave flat absorbers are used on Doors, Anechoic chamber corners, RF shielded cabinets.

FEATURES

- Frequency Range of Operation from 1 GHz to 40 GHz
- Power Handling Capacity up to 4.8 kW/m²
- Water resistant per GB/T 4208-2017
- Non-flammable per UL 94 : 2013, DIN 4102
- Made of Environment friendly raw material. It does not emit toxic gas
- ROHS and REACH compliant
- Almost zero carbon dust and clean test site compatible
- Long product life with excellent Electrical Performance

DIMENSION AND WEIGHT

Model Number	Overall length	Overall Width	Thickness	Weight
DMC-PP-FLT-40	1200 mm	300 mm	40 mm	1.11 Kg
DMC-PP-FLT-100	600 mm	300 mm	100 mm	0.77 Kg

TYPICAL REFLECTIVITY OVER FREQUENCY RANGE IN -dB

Model Number	Thickness	1 GHz	3 GHz	6 GHz	10 GHz	18 GHz	40 GHz
DMC-PP-FLT-40	40 mm	15	24	26	29	33	34
DMC-PP-FLT-100	100 mm	21	27	28	33	37	39

TEST REPORT

Instrument used for testing			
Name	Model	Measuring range	Max allowable
Receiver	ESV 40	20 Hz- 40 GHz	1.0 dB
Electric field probe	FL 7018	3 MHz- 18 GHz	1.29 dB (K=2)
Power probe	NRP-281	50 MHz- 18 GHz	0.13 dB @ 2 GHz 0.18 dB @ 8 GHz

Environmental condition			
Temperature	21°C	Humidity	49%

Test Repot			
Test Frequency	2 GHz to 8 GHz		
Power type	Continuous wave(CW)		
Power setup	600 V/m	1000 V/m	1350 V/m

Test Result			
Power(CW) 2 GHz	602 V/m or 954 W/m ₂	1003 V/m or 2.6 kW/m ₂	1353 V/m or 4.8 kW/m ₂
Result	Keep Good	Keep Good	Keep Good

Power(CW) 8 GHz	602 V/m or 954 W/m ₂	1003 V/m or 2.6 kW/m ₂	1353 V/m or 4.8 kW/m ₂
Result	Keep Good	Keep Good	Keep Good



PICTURES



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