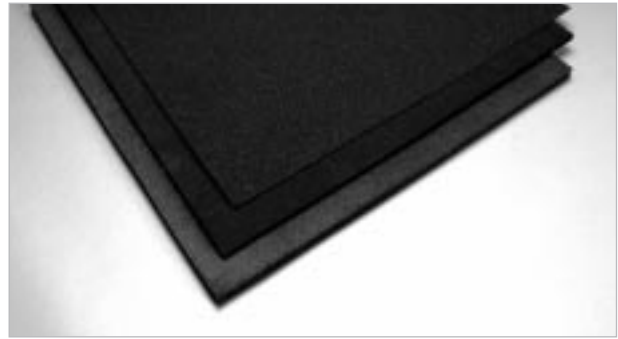




RFLS is a series of single layer “lossy” sheets produced by dipping lightweight open-celled urethane foam into a resistive solution. The end product is a uniform, lightweight, loaded sheet material with a specified insertion loss at a given frequency. RFLS offers the lowest cost in microwave absorber products. Thickness of the sheets range from 0.125” to 1.5” (3.2 mm to 38.1 mm) and are generally 24” x 24” (609.6 mm x 609.6 mm). Custom sizes and components can be fabricated. The insertion loss of the product is measured in an insertion tunnel over the 2 to 18GHz frequency range. Specifications are generally given at 3 or 10GHz. The material can be die-cut into components and supplied with a pressure-sensitive adhesive for ease of application.



APPLICATIONS

RFLS sheets are used to lower noise or cavity Q’s in microwave components such as amplifiers, oscillators, computer housings and wireless equipment. Fire retardant versions to UL94 HF1 are also available.

TABLE 1: RFLS – SINGLE LAYER “LOSSY” SHEETS PART NUMBERS

Note: Other materials or combinations of attributes are available; please contact sales for assistance.

FIGURE 1.

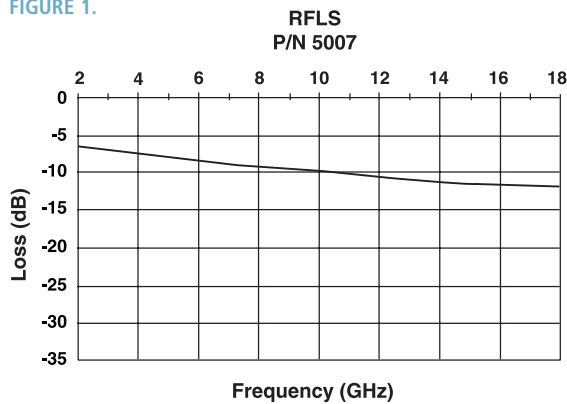
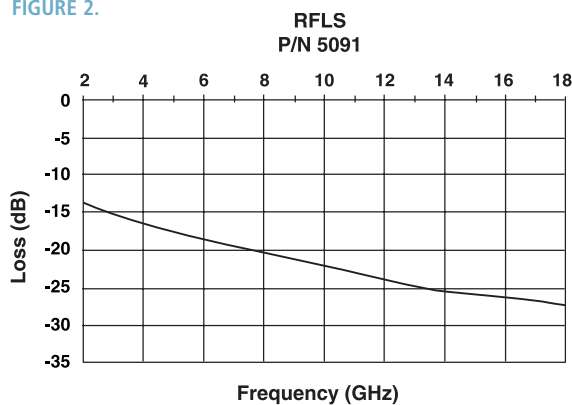


FIGURE 2.



5000 – 5299 RFLS – SINGLE LAYER “LOSSY” SHEETS

PART NUMBER	THICKNESS IN (MM)	LENGTH IN (MM)	WIDTH IN (MM)	INSERTION LOSS PER IN AT 3GHZ (DB/IN)	OTHER
5020	0.125 (3.2)	24.0 (609.6)	24.0 (609.6)	-7.8	
5047	0.125 (3.2)	24.0 (609.6)	24.0 (609.6)	-10.0	
5072	0.125 (3.2)	24.0 (609.6)	24.0 (609.6)	-15.0	
5093	0.125 (3.2)	24.0 (609.6)	24.0 (609.6)	-15.0	PSA
5049	0.125 (3.2)	24.0 (609.6)	24.0 (609.6)	-32.0	
5073	0.125 (3.2)	24.0 (609.6)	24.0 (609.6)	-38.0	PSA
5040	0.125 (3.2)	24.0 (609.6)	24.0 (609.6)	-46.0	
5099	0.125 (3.2)	24.0 (609.6)	24.0 (609.6)	-46.0	
5098	0.125 (3.2)	24.0 (609.6)	24.0 (609.6)	-50.0	
5062	0.125 (3.2)	24.0 (609.6)	24.0 (609.6)	-60.0	
5065	0.125 (3.2)	24.0 (609.6)	24.0 (609.6)	-67.0	
5063	0.125 (3.2)	24.0 (609.6)	24.0 (609.6)	-84.0	
5064	0.125 (3.2)	24.0 (609.6)	24.0 (609.6)	-104.0	
5002	0.250 (6.4)	24.0 (609.6)	24.0 (609.6)	-1.1	
5007	0.250 (6.4)	24.0 (609.6)	24.0 (609.6)	-1.7	
5006	0.250 (6.4)	24.0 (609.6)	24.0 (609.6)	-2.5	
5005	0.250 (6.4)	24.0 (609.6)	24.0 (609.6)	-3.8	
5082	0.250 (6.4)	24.0 (609.6)	24.0 (609.6)	-4.1	
5008	0.250 (6.4)	24.0 (609.6)	24.0 (609.6)	-5.9	
5009	0.250 (6.4)	24.0 (609.6)	24.0 (609.6)	-7.8	
5081	0.250 (6.4)	24.0 (609.6)	24.0 (609.6)	-10.0	
5003	0.250 (6.4)	24.0 (609.6)	24.0 (609.6)	-32.0	
5079	0.250 (6.4)	108.0 (2743.2)	24.0 (609.6)	-32.0	
5004	0.250 (6.4)	24.0 (609.6)	24.0 (609.6)	-39.0	
5010	0.250 (6.4)	24.0 (609.6)	24.0 (609.6)	-46.0	
5016	0.250 (6.4)	110.0 (2794.0)	19.0 (482.6)	-49.0	
5092	0.250 (6.4)	24.0 (609.6)	24.0 (609.6)	-49.0	
5011	0.250 (6.4)	24.0 (609.6)	24.0 (609.6)	-58.0	PSA
5012	0.250 (6.4)	24.0 (609.6)	24.0 (609.6)	-67.0	PSA
5001	0.250 (6.4)	24.0 (609.6)	24.0 (609.6)	-76.0	
5048	0.375 (9.5)	24.0 (609.6)	24.0 (609.6)	-10.0	
5017	0.375 (9.5)	24.0 (609.6)	24.0 (609.6)	-15.0	
5060	0.375 (9.5)	24.0 (609.6)	24.0 (609.6)	-32.0	
5078	0.375 (9.5)	24.0 (609.6)	24.0 (609.6)	-39.0	
5021	0.375 (9.5)	24.0 (609.6)	24.0 (609.6)	-46.0	
5066	0.375 (9.5)	24.0 (609.6)	24.0 (609.6)	-67.0	
5095	0.500 (12.7)	24.0 (609.6)	24.0 (609.6)	-6.5	
5089	0.500 (12.7)	24.0 (609.6)	24.0 (609.6)	-25.0	
5090	0.500 (12.7)	24.0 (609.6)	24.0 (609.6)	-25.0	PSA
5067	0.500 (12.7)	24.0 (609.6)	24.0 (609.6)	-67.0	
5014	1.000 (25.4)	24.0 (609.6)	24.0 (609.6)	-13.0	
5091	1.000 (25.4)	24.0 (609.6)	24.0 (609.6)	-15.0	
5086	1.000 (25.4)	24.0 (609.6)	24.0 (609.6)	-30.0	
5059	1.250 (31.8)	24.0 (609.6)	24.0 (609.6)	-10.0	PSA
5068	4.000 (101.6)	24.0 (609.6)	24.0 (609.6)	-1.5	
5069	4.000 (101.6)	24.0 (609.6)	24.0 (609.6)	-2.0	
5070	4.000 (101.6)	24.0 (609.6)	24.0 (609.6)	-3.0	
5071	4.000 (101.6)	24.0 (609.6)	24.0 (609.6)	-4.0	

ORDERING INFORMATION

Table 1 lists existing part numbers for uniform LS foam materials. Select the thickness (in ascending order) and the part number. Within a given thickness, the insertion loss can be tailored by the addition of more of the conductive carbon coating. The other columns indicate flame retardant (FR), pressure-sensitive adhesive (PSA) or ground plane (GP). Performance is measured in dB insertion loss compared to air at 3GHz. Standard sheet size is 24” x 24” (609.6 mm x 609.6 mm); other sizes are also available.

All dimensions shown are in inches (millimeters) unless otherwise specified.