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NYS-SORBER® AB 910 Thermal Microwave Absorber

Thermal microwave absorber, as the name implies, can both absorb microwaves and conduct heat. With polymer silicon as substrate, thermal microwave absorber is a compound of ceramic powder, magnetic filler and corresponding additives. The product can achieve thermal conduction and microwave absorption at low compression force, and it has good insulation properties and environmental stability.

NYS-SORBER® AB 910 is a blended absorber/ thermal management material that is used for EMI mitigation. It can be applied like a traditional thermal pad between heat source and heat sink or other device need heat transfer. This product is ideally suitable for 4-110GHz optical module application.



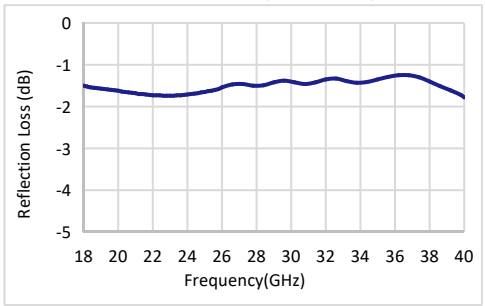
SPECIFICATIONS

Typical Performance		NYS-SORBER® AB 910		Unit		Test Method	
Color		Gray		-		-	
Hardness		45±5		Shore OO		ASTM D2240	
Density		4		g/cm^3		ASTM D792	
Permittivity ε' (77GHz)		13.6		-		SJ20512-1995	
Permittivity ε" (77GHz)		1.6		-		SJ20512-1995	
Permeability μ' (77GHz)		1.1		-		SJ20512-1995	
Permeability μ" (77GHz)		0.06		-		SJ20512-1995	
Working Temperature		-45~+200		℃		ASTM D1329	
Volume Resistivity		≥10^9		Ohm-cm		ASTM D257	
Breakdown Voltage		4.5		KV		ASTM D149	
Flammability Rating		V-0		-		UL94	
Thermal Conductivity		1.8		W/m-K		ASTM D5470	
Thermal Resistance VS Pressure	Pressure (PSI)	30	40	10	20	2	5
	Compression Ratio(%)	22.9	27	2.7	13.1	0.9	1.9
	Thermal Resistance (℃-in^2/w)	0.78	0.76	0.97	0.89	1.05	1.02

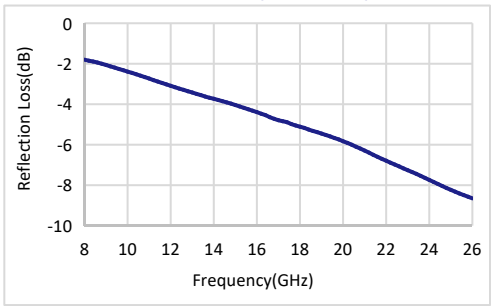
FEATURES & BENEFITS

- Soft like a thermal gap filler material.
- Thickness range: 0.5~5mm.
- T-1.0mm product is especially suitable for 10GHz optical module application.
- Product does not require peel and stick adhesive when used like a traditional thermal interface material due to its tacky, compliant properties.
- UL Flammability: V-0.

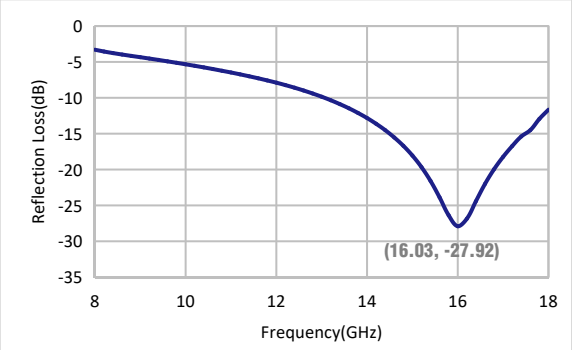
REFLECTION LOSS CURVE (T =0.3mm)



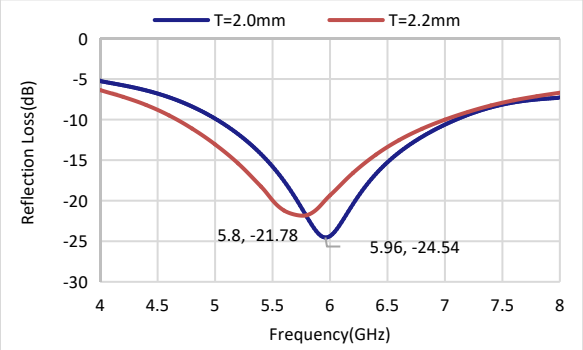
REFLECTION LOSS CURVE (T =0.5mm)



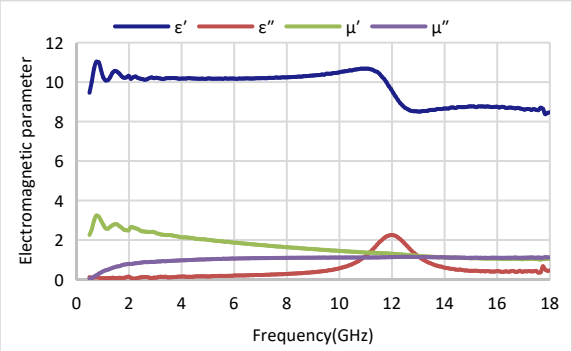
REFLECTION LOSS CURVE (T =1.0mm)



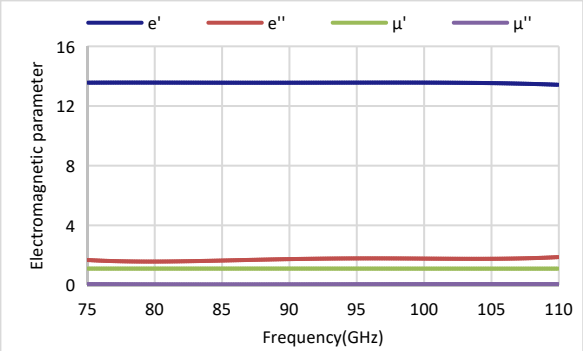
REFLECTION LOSS CURVE (T = 2 & 2.2mm)



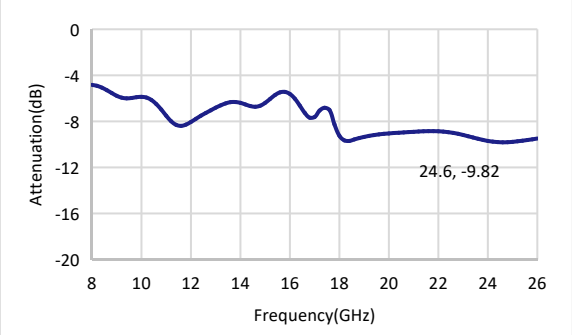
ELECTROMAGNETIC PARAMETER (2~18GHz)



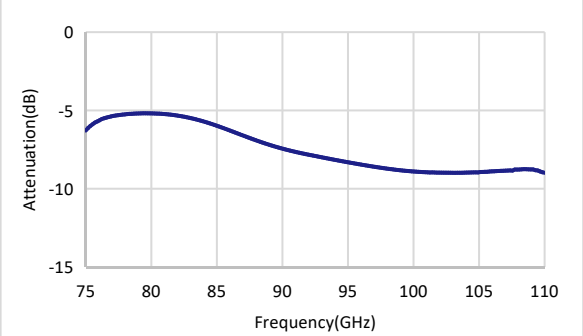
ELECTROMAGNETIC PARAMETER (75~110GHz)



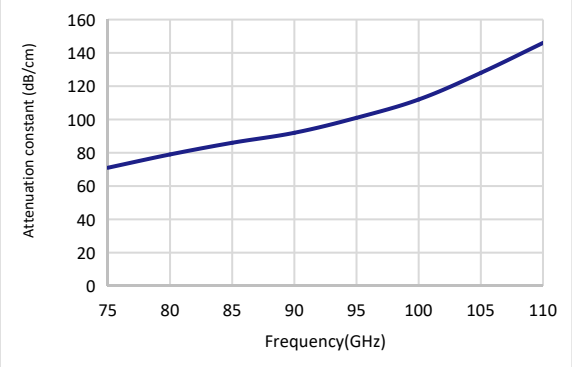
FREE SPACE METHOD-S21-1MM (2~18GHz)



FREE SPACE METHOD-S21-1MM (75~110GHz)



ATTENUATION CONSTANT (dB/cm) (75~110GHz)



Cautions

The information provided in the Laboratory Data Sheet (TDS) (including product use and application recommendations) is based on our knowledge and experience of Kleber products. The data contained in this LDS is for reference only and is considered reliable. We cannot be held responsible for the results of others as a result of methods beyond our control. This product can have a variety of different applications and different working conditions in your environment, which is beyond our control. Therefore, Kleber assumes no responsibility for whether the product is suitable for your production process and conditions as well as the expected applications and results. We strongly recommend that you test the product before use to confirm the applicability of the product.

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