

**TECHNICAL DATA SHEET**  
**Wave~X EMI Suppression and Absorption Material**  
**ARC-WT-PCB**

**Description:** Lightweight, absorber suitable for injection molding applications. It is a thermoplastic loaded with a carbon black filler allowing for significant cost and weight savings over traditional metal housings.

**PCB Specifications**

	English Units	SI Units
<b>Melting Temperature:</b>	330 °F	165 °C
<b>Service Temperature:</b>	< 250 °F	< 120 °C
<b>Tensile Strength:</b>	5 ksi	34.5 Mpa
<b>Elongation :</b>	8%	8 %
<b>Tensile Modulus:</b>	61 ksi	0.42 Gpa
<b>Thermal Expansion:</b>	48 µm/m* °F	87 µm/m* °C
<b>Notched Izod Impact Resistance:</b>	0.3	0.3

**RoHS Compliant**

**Color:** Black

**Specific Gravity:** Between 0.9 and 1.0

**Dielectric Properties:**

Frequency (GHz)	Low-Impedence Formula				High-Impedence Formula			
	e'	e''	u'	u''	e'	e''	u'	u''
2	22.90	17.01	1.01	0.00	78.24	37.72	0.90	0.10
4	14.65	13.22	1.01	0.01	56.44	39.93	0.95	0.05
8	10.16	9.16	0.96	0.00	38.95	33.10	0.91	0.04
12	8.72	7.09	0.98	-0.06	31.09	30.53	0.91	0.02
16	7.44	5.86	1.00	0.01	22.97	25.94	0.91	0.08

The technical information contained herein is consistent with the properties of this material but should not be used in the preparation of specifications as it is intended for reference only.



**Solutions for Interference Control**

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