



# Flex Suppressors

## Flexible EMI Suppressor Sheets



### Why Choose KEMET

KEMET Corporation is a leading global supplier of electronic components. We offer our customers the broadest selection of capacitor technologies in the industry across all dielectrics, along with an expanding range of electromechanical devices, electromagnetic compatibility solutions and supercapacitors. Our vision is to be the preferred supplier of electronic component solutions for customers demanding the highest standards of quality, delivery and service.

### Features & Benefits

- Halogen-free
- Reduced service hours with high temperature
- High magnetic permeability
- Low magnetic loss ( $\mu''$ )
- Ultra-thin flexible sheet available on roll format
- Manufactured in a variety of shapes/sizes
- Ideal for use in portable equipment and a wide variety of applications
- Resonance suppression controls the high frequency current and suppresses unwanted electromagnetic resonance by creating impedance
- Suppresses the electromagnetic wave intruding the sheet by the magnetic loss of its composition.
- Improves communication range of RFID

### Product Checklist

- Does your product require protection against EMI or noise interferences?
- Does your product require protection against ESD?
- Does your RFID product require shielding to improve signal transmission and receiving?

**For more information, samples and engineering kits, please visit us at [www.kemet.com](http://www.kemet.com) or call 1.877.myKEMET.**

### Programs Supported

Flex suppressors are flexible, polymer sheets with micro-magnetic foils used to attenuate or suppress electromagnetic and radio frequency interferences (EMI/RFI) generated by electronic devices. It can also be used to improve signal transmissions and receptions.

Any type of electronic equipment or component exposed to noise radiation including:

- Computer
- Consumer
- Industrial
- Medical
- RFID
- Telecommunication
- Automotive
- Gaming & Entertainment

### KEMET Electrical/Physical Characteristics

<b>Standard dimensions (mm)</b>	240 × 240
<b>Effective frequency</b>	Up to 10 GHz
<b>Thickness (mm)</b>	0.03, 0.05, 0.07, 0.1, 0.2, 0.3, 0.5, 1.0
<b>Temperature range (°C)</b>	-40 to +105
<b>Specific gravity (in 23°C atmosphere)</b>	2.8, 3.0, 3.1, 3.2, 3.6 (typ)
<b>Tensile strength (MPa)</b>	3.5, 3.6, 6.8, 6.9
<b>Surface resistance (<math>\Omega</math>)</b>	$1.0 \times 10^5$ (min.)
<b>Thermal conductivity (W/m K)</b>	0.22, 0.4, 1.3
<b>Approved standard</b>	UL94 V-0, UL94 V-1, UL94 HB, UL File No. E176124
<b>Environment</b>	RoHS compliant, halogen-free, PVC-free, lead-free
<b>Relative magnetic permeability (at 3 MHz)</b>	20, 60, 100, 130

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### Ordering Information

Series Type	Thickness	Standard Dimensions (mm)	Tape 1 Type Adhesive Tape Thickness	Tape 2 Type
EFR	(01)	240 x 240	T08	00
EFR	003 = 0.03 mm	240 x 240	T08 = 0.03 mm	00 = Without PET tape
EFX	005 = 0.05 mm		T15 = 0.14 mm	
EFF	007 = 0.07 mm		T22 = 0.05 mm	
EFA	01 = 0.1 mm		Blank = No adhesive tape	
EFH	02 = 0.2 mm			
EFG	03 = 0.3 mm			
	05 = 0.5 mm			
	10 = 1.0 mm			

