

## Complex Thermal Conductive Film

TR332CU is a complex thermally conductive film, composed of graphite radiator which can be laminated on copper foil to superior thermal management and ease of manufacture. TR332CU can be supplied in various manufacturing friendly formats and custom die-cut for the ultimate convenience.

### FEATURES

- / Excellent heat transfer
- / Manufacturing friendly form-factor
- / Can be custom die-cut
- / Flexibly conforms to surfaces

### TYPICAL APPLICATION

- / Set top box
- / Notebook Computers
- / ProjectorProjector
- / Mobile phone
- / Hand held devices
- / 5G base station & infrastructure
- / EV electric vehicle

### HOW TO ORDER

Patron GRAPHITE TR332CU-1500 XXX-YYY-ZZmm

XXX = width in mm

YYY = depth in mm

ZZ = thickness in mm

<https://www.patron-components.com/>



### TYPICAL PROPERTIES

PROPERTY	TR332CU		TEST METHOD	UNIT
Color	Black		Visual	-
Thickness	0.10	0.15	ASTM D374	mm
TML	<0.1	<0.1	-	%
Application temperature	-60~120	-60~120	-	°C
Short time temp. @30sec	150	150	-	°C
<b>ADHESION</b>				
Initial tack	25	11	PSTC-6	cm
<b>RADIATION</b>				
Heat emissivity coefficient	0.96	0.96	ASTM C1371	-
<b>ELECTRICAL</b>				
Dielectric breakdown	1.0	1.5	ASTM D149	KV
Surface resistivity	>10 <sup>11</sup>	>10 <sup>11</sup>	ASTM D257	Ohm
Volume resistivity	>10 <sup>11</sup>	>10 <sup>11</sup>	ASTM D257	Ohm-m
<b>THERMAL</b>				
Thermal conductivity XY axis	1500	1500	AC calorimeter	W/m*K
Thermal conductivity Z axis	1.2	1.2	Laser flash	W/m*K