# THER DCTPs-140-4,5-80



## **High Insulated Thermal Conductive Pad**

Patron DCTPs-140-4,5-80 is a thermal insulator uses fiberglass cloth as a reinforcement material, combined with thermal conductive silicon, giving it high thermal conduction and great compression strength. The thermal conductivity is 4.5 W/m\*K, the thickness is 0.25~0.45mm. Its high insulation and fiberglass materials increase the strength of its structure making it cut resistant. Patron DCTPs-140-4,5-80 is the best choice for high torque screw setting. It functions well with electrical isolative of high power electronic component and the heat sink.

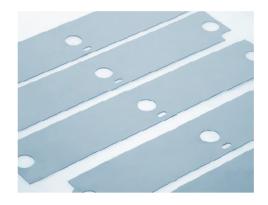
#### **FEATURES**

/ Thermal conductivity: 4.5 W/m\*K

/ Excellent insulator

/ Re-workable

/ Fiberglass reinforced



#### TYPICAL APPLICATION

/ Power supplies

/ Motor controls

/ EV electric vehicle

/ Automotive electronics

/ 5G base station & infrastructure

### **HOW TO ORDER**

Patron THER DCTPs-140-4,5-80 XXX-YYY-ZZmm XXX = width in mm YYY = depth in mm ZZ = thickness in mm

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

#### TYPICAL PROPERTIES

PROPERTY	DCTPs-140-4,5-80			TEST METHOD	UNIT
Color	Blue			Visual	-
Surface tack 2-side/1-side	2			-	-
Reinforced layer	Fiberglass			-	-
Thickness	0.25	0.30	0.45	ASTM D374	mm
Density	2.8	2.8	2.8	ASTM D792	g/cm <sup>3</sup>
Hardness	80	80	80	ASTM D2240	Shore A
Application temperature	-60~180	-60~180	-60~180	-	°C
ROHS	Compliant	Compliant	Compliant	-	-
ELECTRICAL					
Dielectric breakdown	6	8	11	ASTM D149	KV
Surface resistivity	>1012	>1012	>1012	ASTM D257	Ohm
Volume resistivity	>1010	>1010	>1010	ASTM D257	Ohm-m
THERMAL					
Thermal conductivity	4.5	4.5	4.5	ASTM D5470	W/m*K
Thermal impedance@20psi	0.357	0.408	0.456	ASTM D5470	°C-in²/W
Thermal impedance@60 psi	0.223	0.260	0.316	ASTM D5470	°C-in²/W
Thermal impedance@100psi	0.207	0.221	0.265	ASTM D5470	°C-in²/W