

THER DCTPs-140-4,5-80

Patron
Passive Elektronik

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 compo-nent 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 ³
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	>10 ¹²	>10 ¹²	>10 ¹²	ASTM D257	Ohm
Volume resistivity	>10 ¹⁰	>10 ¹⁰	>10 ¹⁰	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-in ² / W
Thermal impedance@60psi	0.223	0.260	0.316	ASTM D5470	°C-in ² / W
Thermal impedance@100psi	0.207	0.221	0.265	ASTM D5470	°C-in ² / W