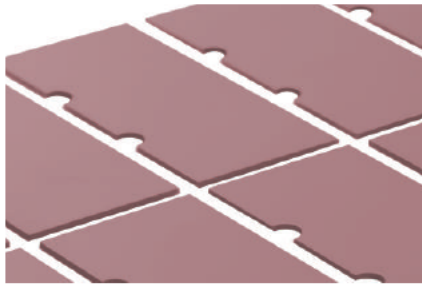


THER DTT65s-5-55

Lightweight Thermal Conductive Gel Pad



Patron THER DTT65s-5-55 is a soft thermal- ly conductive gel pad specifically designed for network ing commu- nication applications.THER DTT65-s is designed to focus on Dk and Df to reduce interference in RF mod- ules. DTT65-s has a thermal conductivity of 5.0 W/m*K. This product can be supplied as stan dard sheets, custom die-cuts or custom molded parts making it suitable for a wide range of appli- cations.

FEATURES

- / Lightweight, Low Density
- Thermal conductivity: 5.0 W/m*K /
- Hardness: Shore OO/50
- / Low dielectric constant
- / For high frequency applications /
- Available in a range of thicknesses

TYPICAL APPLICATION

- / Communications satellite
- / Satellite positioning devices
- / IoT devices
- / Telecommunication hardware / 5G base station & infrastructure / EV electric vehicle

SPECIFICATIONS

- / Sheet form / Die-cut parts

HOW TO ORDER

Patron THER DTT65s-5-55 XXX-YYY-ZZmm

XXX = width in mm

YYY = depth in mm

ZZ = thickness in mm

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

TYPICAL PROPERTIES

PROPERTY	DTT65-s	TEST METHOD	UNIT
Color	Red	Visual	-
Surface tack 2-side/1-side	2	-	-
Thickness	Customized	ASTM D374	mm
Density	2.1	ASTM D792	g/cm ³
Hardness	55	ASTM D2240	Shore OO
Water absorption	0.005	ASTM D570	%
Application temperature	-60~180	-	°C
ROHS & REACH	Compliant	-	-
COMPRESSION@1.0mm			
Deflection @10 psi	8	ASTM D5470 modify	%
Deflection @20 psi	11	ASTM D5470 modify	%
Deflection @30 psi	16	ASTM D5470 modify	%
Deflection @40 psi	21	ASTM D5470 modify	%
Deflection @50 psi	26	ASTM D5470 modify	%
ELECTRICAL			
Dielectric breakdown	10	ASTM D149	KV/mm
Surface resistivity	>10 ¹²	ASTM D257	Ohm
Volume resistivity	>10 ¹³	ASTM D257	Ohm-m
Dielectric constant@2GHz D _k	4.131	ASTM D150	-
Dielectric constant@6GHz D _k	4.058	ASTM D150	-
Dielectric constant@10GHz D _k	4.013	ASTM D150	-
Dielectric loss@2GHz D _f	0.00509	ASTM D150	-
Dielectric loss@6GHz D _f	0.00658	ASTM D150	-
Dielectric loss@10GHz D _f	0.00780	ASTM D150	-
THERMAL			
Thermal conductivity	5.0	ASTM D5470	W/m*K
Thermal impedance@10 psi	0.350	ASTM D5470	°C-in ² / W
Thermal impedance@20 psi	0.342	ASTM D5470	°C-in ² / W
Thermal impedance@30 psi	0.323	ASTM D5470	°C-in ² / W
Thermal impedance@40 psi	0.302	ASTM D5470	°C-in ² / W
Thermal impedance@50 psi	0.281	ASTM D5470	°C-in ² / W

Thermal Resistance vs. Pressure vs. Deflection

