

DATASHEET FOR INSULATING 'KIT' MK3306/TG

1/ Tgard 500 Series Silicone Rubber Insulator Material

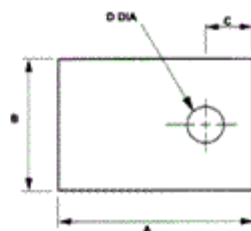
Tgard™ 500 is a medium thermal performance insulator pad consisting of a ceramic filled high temperature silicone rubber coated on electrical grade fibreglass. Tgard™ 500 is designed for applications that require additional thickness to prevent electrical shorts from stamped aluminum heatsinks used in switching mode power supplies (SMPS) and debris from aluminum castings used in automotive motor controls. Tgard™ 500 is used in applications that require an interface of 2.5°C/watt or higher on a TO-220 mounted at 50 psi pressure.

Specifications

Thickness	0.009 inches 0.230 mm
Hardness	85 Shore A
Test Method - Hardness	ASTM D2240
Tensile Strength	1.3k psi 9.0 MPa
Test Method - Tensile Strength	ASTM D412
Elongation at 45° to Warp/Fill	0.20 %
Elongation along Width or Length	5 %
Test Method - Elongation	ASTM D412
Mechanical RTI Temperature Rating	302 °F 150 °C
Test Method - Mechanical RTI Temp Rating	UL 746D
Colour	Dark Pink
UL Flammability Rating	UL 94 V0
Dielectric WithStand Voltage	4500 VAC
Test Method - Dielectric WithStand Voltage	ASTM D149
Dielectric Breakdown Voltage	>6000 VAC
Test Method - Dielectric Breakdown Voltage	ASTM D149
Volume Resistivity	>10 ¹² ohm-cm
Test Method - Volume Resistivity	ASTM D257
Dielectric Constant at 1 MHz	3.30
Test Method - Dielectric Constant	ASTM D257
Electrical RTI Temperature Rating	302 °F 150 °C
Test Method - Electrical RTI Temp Rating	UL 746D

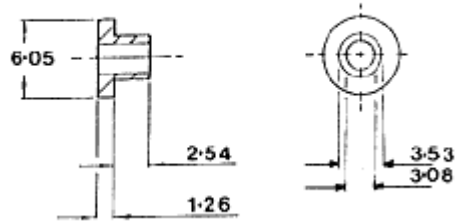
For MK3306/TG insulator TO220 transistor, see size data below for -353 reference

PLASTIC POWER		A	B	C	D	E	F	G	H	J
TO-126	-457	11.0	8.0	3.5	2.3	-	-	-	-	-
TO-126	-568	11.0	8.0	3.5	3.0	-	-	-	-	-
	-679	13.0	10.0	4.3	3.0	-	-	-	-	-
TO-202	-890	15.5	14.0	6.2	3.0	-	-	-	-	-
	-131	17.5	14.0	5.5	3.0	-	-	-	-	-
	-314	18.0	12.0	5.0	3.0	-	-	-	-	-
	-242	18.0	13.0	4.0	3.5	-	-	-	-	-
	-278	19.0	10.5	5.7	4.0	-	-	-	-	-
TO-220	-353	19.0	13.0	4.7	3.5	-	-	-	-	-
TO-220	-464	19.0	13.0	4.7	3.0	-	-	-	-	-
	-303	19.0	15.0	6.0	3.8	-	-	-	-	-
	-575	19.0	15.0	6.0	3.0	-	-	-	-	-
	-289	19.0	20.5	3.8	4.0	-	-	-	-	-



2/ Insulating Bush in Black Glass-Filled Nylon 66 Material

31-35-25 GF



Tolerances on all dimensions $\pm 0.15\text{mm}$

Temperature Rating for GF = Glass-Filled Nylon 66 -40°C $+110^{\circ}\text{C}$ ***GUIDELINE ONLY***