

Silicone Thermal Gel (Paste-Type)



www.vibrationmounts.com Phone: 516.328.3662 Fax: 516.328.3365

- **MATERIAL:** Soft Paste-Type Gel
RoHS Controlled Substance: Assayed by SGS Far East Ltd.



Metric

FEATURES:

- Soft Paste-type (grease) gel with heat-conducting properties.
- High specific volume resistance ratio up to $7.2 \times 10^{14} \Omega \cdot \text{cm}$
- Low dissipation factor down to 0.0004 at 1MHz
- High breakdown voltage up to 9.6 kv/mm

APPLICATIONS

- GAPS AROUND HEAT SOURCES SUCH AS HIGH-PERFORMANCE SEMICONDUCTORS
- SURFACE, UNDERSIDE, AND LEAD LINES OF HEAT SOURCES SUCH AS IC's
- SOURCES OF HEAT WHERE IT IS DIFFICULT TO FIX SHEET-TYPE THERMAL GEL.

Catalog Number	Thermal Conductivity W/m · k		Gel Color	Specific Gravity	Hardness Cone Penetration 1/10 mm not mixed	Specific Volume Resistance Ratio $\Omega \cdot \text{cm}$	Dielectric Constant			Dielectric Dissipation		
	Mfgr. Tests	Hot Wire Method*					50 Hz	1 kHz	1 MHz	50 Hz	1 kHz	1 MHz
V30Z63MDP100	6.5	2.1	Gray Paste	2.8	51	5.9×10^{13}	8.9	7.8	7	0.234	0.061	0.015
V30Z63MDP200	4.8	1.6		2.6	55	7.2×10^{14}	7.6	6.7	6.6	0.017	0.007	0.005
V30Z63MDP300	4.8	1.6	White Paste	2.7	60	1.4×10^{14}	4.4	4.2	4	0.005	0.004	0.0004

Catalog Number	Dielectric Breakdown Voltage kV/mm	Low Molecular Weight Siloxane Level Σ D4 - 10 ppm		Temperature Range Δ °C (°F)	Size
		Solvent Extraction Method	Head Space Method at 70°C		
V30Z63MDP100	5.0	< 700	< 1	-40 to +200 (-40 to +392)	30 cc Syringe (1.01 US fluid oz.)
V30Z63MDP200	5.6	< 900	< 3	-40 to +150 (-40 to +302)	
V30Z63MDP300	9.6	< 300	< 1	-40 to +120 (-40 to +248)	

*Test performed using the QTM-500 meter, Kyoto Electronics Manufacturing Co. LTD.

Δ WARNING: Test before use under actual conditions. Temperature range may vary with application.

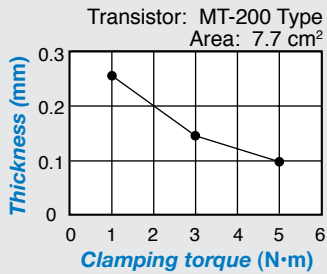


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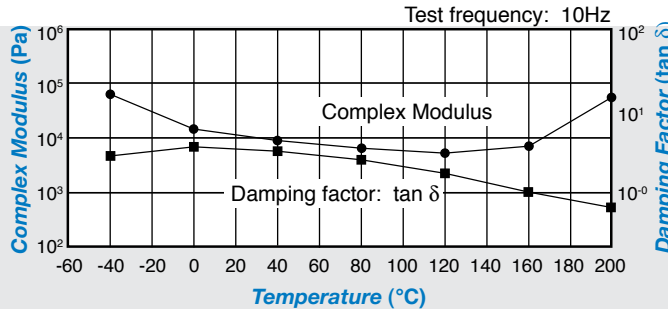
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V30Z63MDP100

CLAMPING TORQUE DEPENDENCY



THERMAL DEPENDENCY



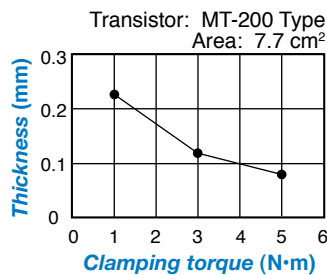
THERMAL RESISTANCE

Transistor: MT-200 Type; Heat Input: 20W

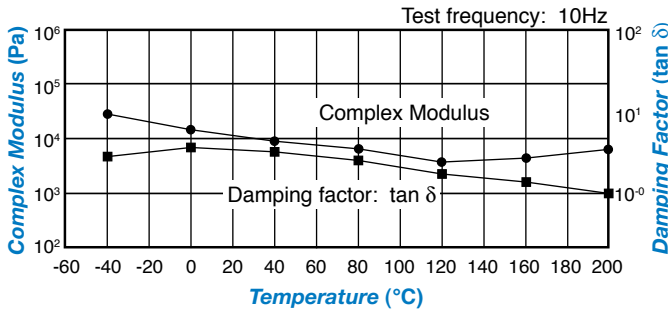
Thickness mm (in.)	Thermal Resistance °C/W
0.15 (.006)	0.13
0.2 (.008)	0.15
0.3 (.012)	0.18

V30Z63MDP200

CLAMPING TORQUE DEPENDENCY



THERMAL DEPENDENCY



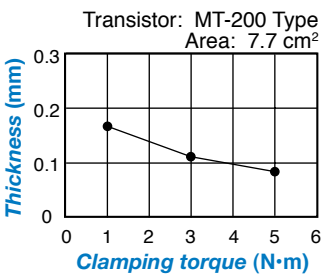
THERMAL RESISTANCE

Transistor: MT-200 Type; Heat Input: 20W

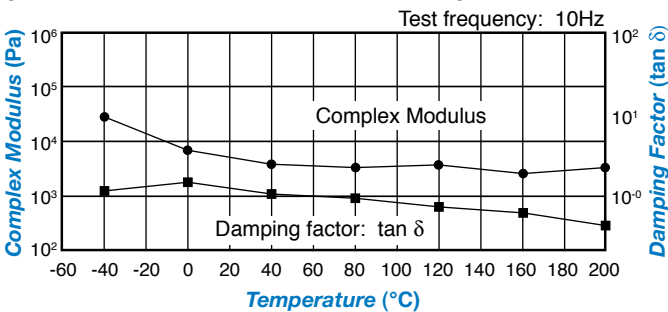
Thickness mm (in.)	Thermal Resistance °C/W
0.1 (.004)	0.13
0.2 (.008)	0.17
0.3 (.012)	0.22

V30Z63MDP300

CLAMPING TORQUE DEPENDENCY



THERMAL DEPENDENCY



THERMAL RESISTANCE

Transistor: MT-200 Type; Heat Input: 20W

Thickness mm (in.)	Thermal Resistance °C/W
0.1 (.004)	0.09
0.2 (.008)	0.17
0.3 (.012)	0.25

