





Part Number	RoHS	PCN	Thread	A	В
43-02-4G	RoHS 🗸 Compliant	Product Change Notice	#4	6.35 (0.250)	3.05 (0.120)
43-02-10G	RoHS 🗸 Compliant	Product Change Notice	#10	14.27 (0.562)	5.16 (0.203)
43-02-25G	RoHS 🗸 Compliant	Product Change Notice	1/4"	20.62 (0.812)	6.73 (0.265)

For TO-220, TO-126, Case 77, Case 199, Case 90, TO-218, TO-3P





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Part Number	RoHS	PCN	A	В	С	D
43-77-1G	RoHS V	Product Change	11.10	7.92	3.56	2.36
(TO-126,case / /)			(0.437)	(0.312)	(0.140)	(0.093)
43-77-2G	RoHS 🗸	Product Change	17.45	14.27	5.54	3.18
(case 90,case 199)	Compliant	Notice	(0.687)	(0.562)	(0.218)	(0.125)
43-77-6G	RoHS V	Product Change	20.62	14.27	7.14	3.96
(case 90,case 199)	Compliant	Notice	(0.812)	(0.562)	(0.281)	(0.156)
43-77-8G	RoHS V	Product Change	18.92	13.84	5.38	3.81
(case 90,case 199)	Compliant	Notice	(0.745)	(0.545)	(0.212)	(0.150)
43-77-9G	RoHS V	Product Change	18.42	13.21	4.32	2.92
(TO-220)	Compliant	Notice	(0.725)	(0.520)	(0.170)	(0.115)
43-77-20G	RoHS V	Product Change	23.24	18.80	6.98	3.66
(TO-220,TO-218,TO-3P	Compliant	Notice	(0.915)	(0.740)	(0.2.75)	(0.144)

For TO-66







Part Number	копэ	PCN	THICKNESS	
12 02 05			0.05	
45-02-95	IN/A	IN/A	(0.002)	

Bulk	Therma	alfilm

Part Number	RoHS	PCN	Thickness
4300G 2 MIL	RoHS √ Compliant	Product Change Notice	0.051 (0.002)
4500 5 MIL	N/A	N/A	0.127 (0.005)

Thermalfilm[™] / Thermalfilm[™]MT

Property	Electrical -Typica	l Value @ 25°C	Test Method
	Thermalfilm™	Thermalfilm™MT	•
Dielectric Strength	03mm (1 -mil) 275.6 x 103 volts/mm (7,000 volts/mil)	177.2 x 103 volts/mm (4500 volts/mm)	ASTM D149-64
Dielectric Constant	3.5	4.3	ASTM D150-64T
Dissipation Factor	0.002	0.002	ASTM D150-64T
Volume Resistivity	1017 ohm-cm	1017 ohm-cm	ASTM D257-61
Surface Resistivity	1016 ohms	1016 ohms	ASTM D257-61
Corona Start Voltage .025mm (1 -mil)	465 volts	465 volts	ASTM D1868-61T
Insulation Resistance	100.00 megohm mfds.	100.00 megohm mfds.	Based on 0.05 mfd wound capacitor using 0.25mm (1 -mil) Film
		PHYSICAL	
Ultimate Tensile Strength (MD)	1.72 x 108 Pa (25,000 psi)	103 MPa (1500 psi)	ASTM D882-64T
Bursting Strength Test (Mullen)	3.10 x 105 Pa (45 psi)	0.31 MPa (45 psi)	ASTM 0774-63
Tear Strength - Initial	27,559 gm/mm (700 gm/mil)	35,433 gm/mm (900 gm/mil)	ASTM D1004-61
Density	1.42 gm/cm3 (88.7 lb/ft3)	1.78 gm/cm3 (111.1 lb/ft3)	ASTM D1505-63T
Folding Endurance(MIT)	>10,000 cycles	>10,000 cycles	ASTM D2176-63T
		THERMAL	
Melting Point	None	None	
Zero Strength Temperature	815°C (1499°F)	815°C (1499°F)	Hot Bar (Du Pont Test)
Cut Through	435°C (815°F)	435°C (815°F)	Weighted Probe on Heated Film
Temperature	525°C (977°F)	525°C (977°F)	(Du Pont Test)
Service Temperature	-260°C to 240°C) (-464°F to 464°F)	-260°C to 240°C) (-464°F to 464°F)	
Thermal Conductivity	0.156Wm/K (0.09 BTU/hr-ft- °F)	0.379Wm/K (0.219 BTU/hr-ft- °F)	Model TC-1000 Twin Heatmeter Comparitive Tester
Flammability	V-0, UL "E" card E39505	V-0, UL "E" card E39505	UL 94

Note: One mil equals .001 inch

Thermalfilm Resistance Calculator

Enter the area of the device that will contact the heat sink:		mm
	Calculate	e
Interface Resistance =		
Formula		

Formula

interface resistance= interface thickness (mm) * 1000 thermal conductivity (W/m-K) * contact area (mm²)



Thermalfilm MT Resistance Calculator

Enter the area of the device that will contact the heat sink:		mm
	Calculate	2
Interface Resistance =		
Formula interface resistance=	C	

interface thickness (mm) * 1000 thermal conductivity (W/m-K) * contact area (mm²)

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