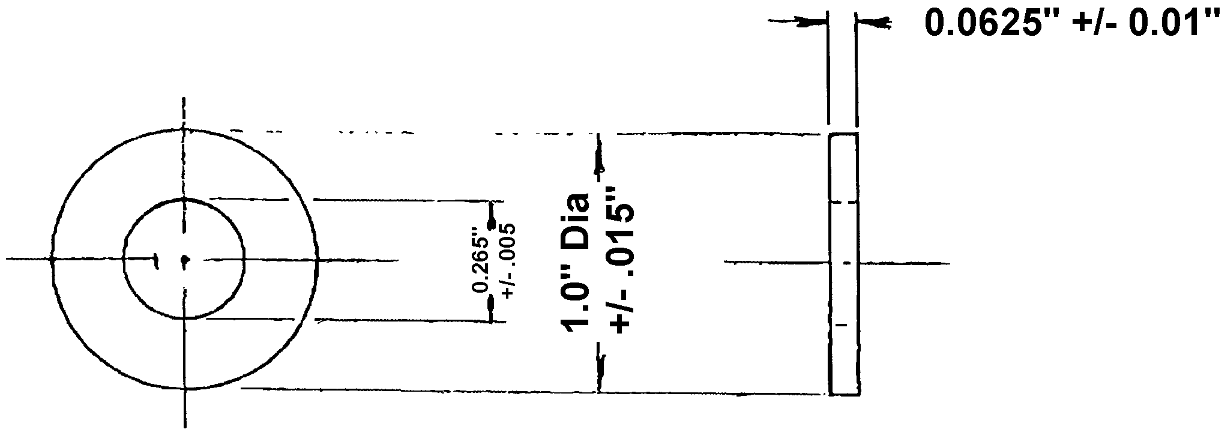
41299



MATERIAL:
GLASS MELAMINE

NEMA GRADE G-5

2) 7/2/62 DJM OMITTED: GE #1512 FROM MTL. NOTE. .0625 ±.010 WAS .0625 DIA. .265 ±.005 WAS .265 DIA.	1) 4-11-56 1" O.D. WAS 9/16 OD

MACHINING TOLERANCE, UNLESS OTHERWISE SPECIFIED— DECIMAL DIMENSIONS ± .005" FRACTIONAL DIMENSIONS ± .010"		
INSULATING WASHER 1" O.D. X 1/16" THK. FOR SELENIUM RECTIFIER		
HO CHIEN		
DRAWN	DATE 10/21/53	DRAWING NUMBER
CHECKED		**41299**

鴻泰絕緣材料有限公司 → 电木板

HON TAI MATERIAL CO., LTD. FILE NO. B122230

LAMINATED PLASTISC DATA SHEETS

HON TAI GRADE			HT-P1001	HT-P2001	HT-P2002	HT-P2003	HT-P2004	HT-P2005	HT-E3501	HT-E3502
RESIN & BASE			POLY GLASS MAT	Phenol Paper	Phenol Paper	Phenol Paper	Phenol cotton cloth	"	EPOXY GLASS Fabric	"
ANSI (NEMA) GRADE (美國)			GPO-3	XPC	XP	FR-2	LE	XXXPC	G-10	FR-4
JIS GRADE (日本)			GL-MN PO	PL-P-P	PL-PEM-P	PL-PES-PF	PL-FLE	PL-PES-P	KEL-GE	KEL-GEF
ITEM	CONDITION	UNIT								
UL Flame Class	A	-	94V0	94HB	94HB	94V-0	94HB	94HB	94HB	94V0
Dielectric Breakdown Perpendicular to Laminations	C-96/20/65 (in 25℃ Oil)	KV/mm	14(OK)	10(OK)	10(OK)	13(OK)	10(OK)	16(OK)	16(OK)	16(OK)
Dielectric Breakdown Parallel to Laminations	C-0.5/90 (in 90℃ Oil)	KV/mm	-	-	-	-	8(OK)	-	10(OK)	10(OK)
Volume Resistivity	C-96/20/65	Ω-cm	$10^{11}-10^{12}$	$5\times10^{11}-10^{13}$	$5\times10^{11}-10^{13}$	$10^{11}-10^{13}$	$5\times10^{11}-10^{13}$	$10^{11}-10^{13}$	$10^{11}-10^{13}$	$5\times10^{11}-10^{13}$
	C-96/20/65 +C-96/40/90		$10^{10}-10^{12}$	$5\times10^{11}-10^{13}$	$5\times10^{11}-10^{13}$	$10^{11}-10^{13}$	$5\times10^{11}-10^{13}$	$10^{11}-10^{13}$	$10^{10}-10^{12}$	$5\times10^{11}-10^{13}$
Surface Resistance	C-96/20/65	Ω	$5\times10^{11}-10^{13}$	$5\times10^{11}-10^{13}$	$10^{11}-10^{13}$	$5\times10^{11}-10^{13}$	$10^{10}-10^{13}$	$10^{11}-10^{13}$	$5\times10^{10}-10^{12}$	$5\times10^{11}-10^{13}$
	C-96/20/65 +C-96/40/90		$10^{10}-10^{12}$	$10^{10}-5\times10^{11}$	$5\times10^{8}-10^{11}$	$10^{11}-10^{13}$	$5\times10^{8}-10^{11}$	$10^{11}-10^{13}$	$10^{10}-10^{12}$	$10^{10}-5\times10^{11}$
Insulation Resistance	C-96/20/65	Ω	$5\times10^{11}-10^{13}$	$10^{11}-10^{13}$	$10^{10}-10^{12}$	$10^{11}-10^{13}$	$5\times10^{10}-10^{13}$	$10^{11}-10^{13}$	$10^{11}-10^{13}$	$10^{11}-5\times10^{13}$
	C-96/20/65 +D-2/100		$10^{8}-10^{9}$	$10^{8}-10^{9}$	$5\times10^{7}-10^{8}$	$10^{8}-10^{9}$	$5\times10^{7}-10^{8}$	$10^{8}-10^{9}$	$10^{8}-10^{9}$	$10^{8}-5\times10^{9}$
Dielectric Constant (1 MHZ)	C-96-20-65	-	4.0-5.0	4.0-5.0	4.0-5.0	4.0-5.0	4.0-5.0	3.7-4.5	4.0-5.0	4.0-5.0
	C-96/20/65 +D-48/50		4.5-5.5	4.5-5.5	4.5-5.5	4.5-5.5	4.5-5.5	4.0-4.8	4.5-5.5	4.5-5.5
Dissipation Factor (1 MHZ)	C-96/20/65	-	0.035-0.045	0.035-0.045	0.035-0.045	0.03-0.04	0.03-0.04	0.028-0.038	0.03-0.04	0.03-0.04
	C-96/20/65 +D-48/50		0.04-0.05	0.04-0.05	0.04-0.05	0.04-0.05	0.04-0.05	0.032-0.042	0.04-0.05	0.04-0.05
Flexural Strength (Crosswise)	A	kg/mm²	38-45	11-16	12-17	10-15	13-18	10-15	40-50	40-50
Heat Resistance (120min)	A	℃	200(OK)	120(OK)	120(OK)	120(OK)	140(OK)	120(OK)	130(OK)	130(OK)
Izod Impact Strength (Parallel)	A	kg-cm/cm²	-	2.8-3.4	2.8-3.4	-	7-9	-	-	-
Bonding Strength	A	kg	-	400-550	400-550	-	700-900	-	-	-
Compressive Strength Perpendicular	A	kg/mm²	-	29-34	29-34	-	29-34	-	29-34	29-34
Compressive Strength Parallel	A	kg/mm²	-	19-24	19-24	-	20-24	-	19-24	19-24
High Voltage Arc Resistance	C-96/20/65	Sec.	-	-	-	-	130-140	-	130-140	130-140
Water Absorption	E-24/50 +D-24/23	%	0.5-0.7	1.2-1.6	1.2-1.6	0.8-1.2	0.4-0.8	0.3-0.6	0.07-0.16	0.07-0.16
Acetone Resistance	boiled	Min.	30(OK)	30(OK)	30(OK)	30(OK)	30(OK)	30(OK)	30(OK)	30(OK)
Punchability (Good)	A	℃	20	20-35	80	-	-	30-60	-	-

※ Above values shown are typical for 1.6mm or 15mm thickness

NOMINAL THICKNESS AND TOLLERANCE

Thickness(mm)	0.5	0.6	0.8	1.0	1.2	1.4	1.5	1.6	1.8	2.0	2.5	3.0	4.5	5.0	6.0	8.0	10.0	12.0	15.0	16.0	20.0	25.0	30.0	35.0	40.0	50.0	75.0	100.0
Paper-Phenol(±mm)	0.08	0.08	0.10	0.10	0.13	0.13	0.13	0.15	0.15	0.15	0.20	0.20	0.25	0.30	0.35	0.40	0.45	0.50	0.55	0.60	0.70	0.85	1.00	1.10	1.20	1.45	3.00	4.00
Cotton-Phenol(±mm)	0.13	0.13	0.15	0.15	0.20	0.20	0.20	0.25	0.25	0.25	0.30	0.30	0.35	0.40	0.50	0.55	0.65	0.75	0.80	0.90	1.10	1.20	1.30	1.40	1.50	1.75	3.50	4.80
Glass Fabric	0.13	0.13	0.15	0.15	0.20	0.20	0.20	0.25	0.25	0.25	0.30	0.30	0.5	0.8	1.0	1.2	1.5	1.8										

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