Panasonic INDUSTRY



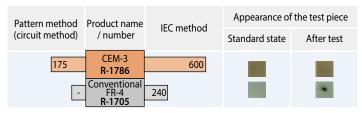
Double-sided copper clad **R-1786**

For high current applications Thick copper glass composite circuit board materials

Compatible with high current applications by thick copper foil usage $(70\mu m)$.

CEM-3 grade material with high reliability (Tracking resistance CTI ≥600V)

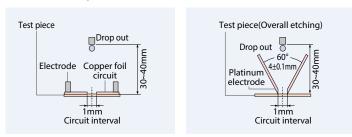
Tracking resistance



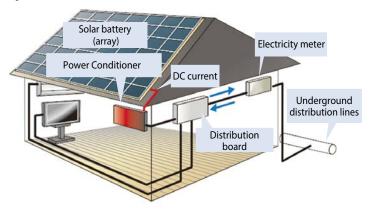
Test method

Drip 50 drops electrolyte (0.1% aqueous solution of ammonium chloride) towards the central circuit current of 1.0A flows in the voltage of 100V \sim 600V (25V interval).

Measure the voltage current flows for more than 2 seconds.



General configuration of solar power (personal residence)



General properties

ltem		Unit	Unit	R-1786
Tg		Temp. rising rate:10°C/min	°C	140
Solder heat resistance		260°C solder float for 2min	-	No abnormality
Heat resistance	1oz	A	-	240°C 60min
CTE x-axis	α1	TMA	ppm/°C	25 (20)
CTE y-axis				28 (23)
CTE z-axis	α1	TMA	ppm/°C	65
Dk*	· 1MHz	C-96/20/65	_	4.5
		C-96/20/65+D-24/23		4.5
Df*		C-96/20/65		0.015
		C-96/20/65+D-24/23		0.015
Volume resistivity		C-96/20/65	MΩ-m	1×10 ⁸
		C-96/20/65+C-96/40/90		5×10 ⁷
Surface resistivity		C-96/20/65	МΩ	3×10 ⁸
		C-96/20/65+C-96/40/90		1×10 ⁸
Insulation resistance		C-96/20/65	МΩ	5×10 ⁸
		C-96/20/65+D-2/100		1×10 ⁷
Water absorption		E-24/50+D-24/23	%	0.08
Flexural strength	Fill	А	N/mm²	280
Peel strength	2oz	А	kN/m	2.2
		260°C solder float for 20sec		2.1
Alkari resistance		dipping(3min)	-	No abnormality
Flammability		A+E-168/70	-	94V-0
The sample thickness is 1.6mm.				

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The figure in parentheses is for the thickness of 0.8mm.

<Test method> JIS C6481 * IPC TM-650 2.5.5.9

The above data are typical values and not guaranteed values.

industrial.panasonic.com/ww/electronic-materials

panasonic R-1786

Panasonic Industry Co., Ltd. Electronic Materials Business Division