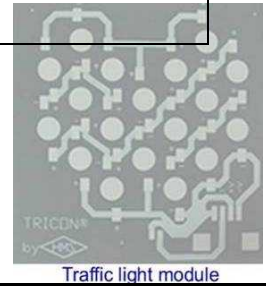


## E-Series Performance Specifications

Base Material	6000 series Aluminum
Maximum Operating Voltage	250 VAC
Maximum Operating Temperature	150°C
Conductor Adhesion – Initial (2mm X 2mm, 1.0mm solder wire)	< 2.0 kgf
Conductor Trace Resistivity	3 ~ 6 mohms /in <sup>2</sup>
Conductor Trace Resolution (line/space)	125µm / 125µm
Fired Conductor Thickness	12.5 ~ 15.0 µm
Breakdown Voltage Pattern	< 400 V
Available Insulation Layer Thickness	40 ~ 50 µm
Maximum Substrate Size	400mm X 400mm
Available Substrate Thickness (mm)	0.80, *1.60, 2.50, 5.00
Typical Properties	Bondable, SMD, Reflow, soldering
Manual Soldering Recommendation	Tip temperature 360 ~ 420°C for 3s Max ( 1 time solder)

Note: \*common thickness



### Conductor Reliability Test

Traffic light module

	Pressure Cooker		Thermal Shock	
	Before	After	Before	After
Resistance (Ω)	0.157	0.156	0.147	0.145
Pull Force (kgf)	1.4~2.6	<1.0	1.8~2.4	<1.0
Pattern Breakdown voltage (volts)	363	337	363	356
Surface Breakdown voltage (volts)	501	625	501	498
Test Method	HMS test		Mil-Std-883 Method 1011 Condition C	
Test Conditions	Temp : 121° C Humidity : 100%RH Pressure : 2atm Period : 168hours		High Temp : +150° C Low Temp : -65° C Dwell time : 1hour Cycles : 250	

