

Chart 5-2: Design Quality Chart

Subsystem	Failure Mode	Effect of Failure	Cause/Mechanism of Failure	Current Controls	Recommended Action	Person responsible	Failure Preventive Condition Characteristics	Value
	Over run at moving contact	Fog Lamp is not operating	Over run caused by excessive clearance	Setting flexibility for turning ON	Recheck on the flexibility, considering "flexed" or "shaky" condition		Clearance	2.0 1
	Over run at the point caused by lack of stopper rigidity		Over run at the point caused by lack of stopper rigidity	Setting flexibility for turning ON	Recheck on the flexibility, considering "flexed" or "shaky" condition		Stopper flexed	Max 0.3
							Clearance at fixing contact	2+0.1
							Stopper flexed	Max 0.3
							PCB flexed	Max 0.3
							Clearance at frame	0+0.2
							Grease spread	5+0.2mg
							Crimping	0.5+0.1N
							Retention	Min 50N
							Retention	Min 50N

Name of Process/Parts	Parts Characteristics	Value	Cpk	
			max	min
Center Knob	Stopper thickness Stopper height Diameter	2.5+0.2 11.5+0.1 5+0.1		
Light Knob	Flange height Collar length	10+0.3		8

Ref	DFMEA Part Failures	Effect of Failure	Failure Preventive Condition	
			Value	Characteristics
		Over run at moving contact	2+0.1	Clearance at fixing contact
		Floating at moving contact	Max 0.3	Stopper flexed
		Wear of contact	Max 0.3	PCB flexed
		Fog knob rotation	0+0.2	Clearance at frame
		Light Knob rotation	5+0.2mg	Grease spread
			0.5+0.1N	Crimping
			Min 50N	Retention
			Min 50N	Retention

Reflect to product drawing

Design Quality Chart (Quality Chart-2)

DFMEA Sample

Differed from original FMEA