Long-Term High-Temperature Resistant FPC

Excellent in long-term heat resisting properties under high-temperature environment with adhesive-less structure!

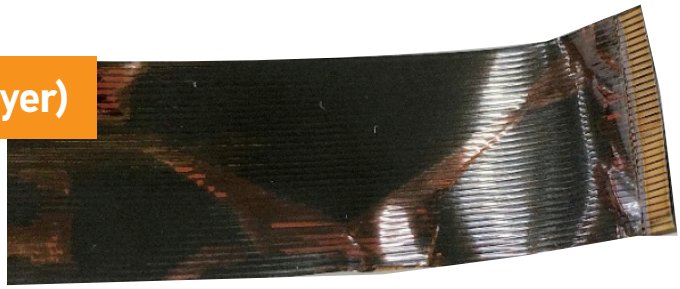
Electric characteristics are not damaged even after a long-term high-temperature test of 1,000 hours or the equivalent at 200°C.

Test method

Wind products round a pin gage of 6.4 mm in diameter to check the status after the products are left as they are at a high temperature of 200°C for 1,000 hours or the equivalent.

All LCPs (without adhesive)

Polyimide FPC (with adhesive layer)



Evaluation result

All LCPs (without adhesive)

Test item	Before test	After test	Acceptability criterion	Test method
Insulation resistance	9.3×10^{11} Ω	5.4×10^{11} Ω	5.0×10^{8}Ω or more	JIS C 5016 section7.6
Conduction resistance change rate	0%	3.60%	Change rate of within 10%	JIS C 5016 section9.2
Withstand voltage	-	500V	No flashover must occur at 500 VAC applied voltage.	JIS C 5016 section7.5
Coverlay peeling	No peeling	No peeling	No peeling must occur.	-

Polyimide FPC (with adhesive layer)

Test item	Before test	After test	Acceptability criterion	Test method
Insulation resistance	2.1×10^{11} Ω	Cannot be measured.	5.0×10^{8} Ω以上	JIS C 5016 section7.6
Conduction resistance change rate	0%	12.70%	Change rate of within 10%	JIS C 5016 section9.2
Withstand voltage	-	300V	No flashover must occur at 500 VAC applied voltage.	JIS C 5016 section7.5
Coverlay peeling	No peeling	Peeled off	No peeling must occur.	-

YAMASHITA MATERIALS

E-mail: cc@yamashita-net.co.jp