



Flexible circuit board materials LCP(Liquid Crystal Polymer) フレキシブル基板材料 LCP(液晶ポリマー)

FELIOS LCP
Double-sided R-F705S

Applications 用途

Smartphone(Antenna module), Laptop, Tablet PC,
4K/8K display(High-speed FPC cable), Automotive component, Etc.
スマートフォン(アンテナモジュール)、ノート PC・タブレット PC・
4K/8K ディスプレイ(高速 FPC ケーブル)、車載機器など



Suitable for high-speed large-volume data transmission of mobile devices with good high frequency property.
It is suitable for replacement of micro coaxial cable and millimeter-wave radar antenna.

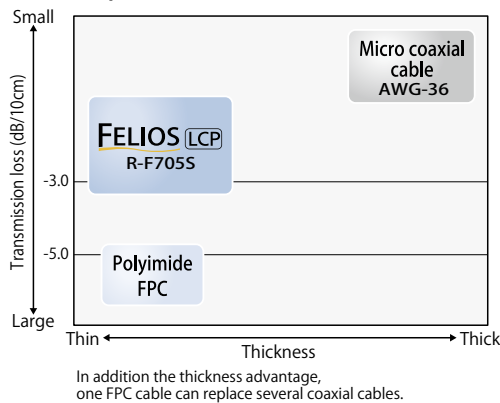
優れた高周波特性により、モバイル機器の大容量・高速伝送に貢献、同軸ケーブル置換え。ミリ波レーダー用アンテナ基板に対応

Dk 2.9 Df 0.002
@19GHz

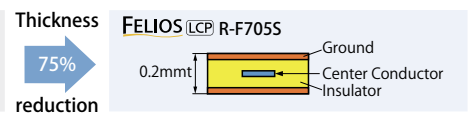
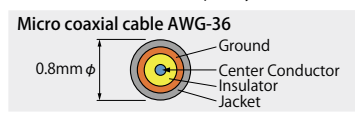
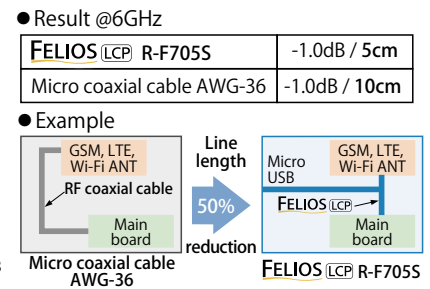
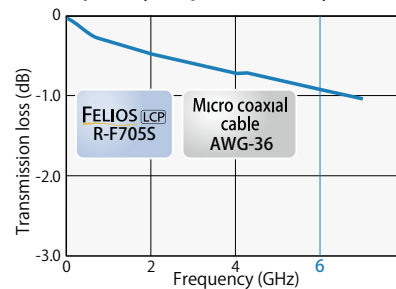
Water absorption
0.04%

Peel strength
0.8N/mm

Concept コンセプト



Frequency dependence by Transmission loss 伝送損失比較



General properties 一般特性

Item	Test method	Condition	Unit	FELIOS LCP R-F705S	
Solder heat resistance	JIS C 6471	288°C solder float for 1min	—	No abnormality	
Dielectric constant(Dk)	19GHz	Balanced-type circular disk resonance	—	2.9	
Dissipation factor(Df)				0.002	
Dielectric constant(Dk)	10GHz	Cavity resonance	—	3.3	
Dissipation factor(Df)				0.002	
Water absorption	Internal method	25°C 50h immersion	%	0.04	
Peel strength	ED:18 μm	IPC-TM-650 2.4.9	A	N/mm	0.8
Dimensional stability	IPC-TM-650 2.2.4	After etching MD	%	0.008	
		After etching TD		0.007	
		After E-0.5/150 MD		0.052	
		After E-0.5/150 TD		0.035	
Flammability	UL	A + E-168/70	—	94VTM-0	

The sample thickness is 0.1mm.

ED (TP4S) 18-100-18

Our Halogen-free materials are based on JPCA-ES-01-2003 standard and others. 当社ハロゲンフリー材料は、JPCA-ES-01-2003 などの定義によるものです。The above data are typical values and not guaranteed values. 上記データは当社測定による代表値であり、保証値ではありません。

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