

Premo-Flex Etched Polyimide Jumpers

Cable Thickness 0.12mm



Premo-Flex polyimide jumpers with etched-copper circuitry achieve tight tolerances for reliable connections to fine-pitch, 0.30mm connectors and are an off-the-shelf, ultra-flexible PCB interconnect solution that maximises board space and design flexibility in compact applications

Premo-Flex jumpers, terminated to Zero Insertion Force (ZIF) FFC connectors, are an ultra-flexible interconnect solution for adjoining PC boards.

Premo-Flex etched polyimide jumpers are terminated with Molex's 0.30mm pitch, dualcontact FPC connectors, series 502598. With a shorter depth and length than similar competitive versions, the 502598 series meets the needs of designers looking for a dual-contact ZIF connector that would enable them to utilize the same PCB pattern on adjoining parallel PCBs.



Etched-Polyimide Copper Circuitry

Features and Benefits

Etched-copper polyimide circuitry	Achieves tight tolerances required for reliable connections with 0.30mm-pitch microminiature FPC connectors
Polyimide substrate	High-temperature insulation material
Cable termination thickness 0.12mm	Off-the-shelf solutions and flexible design options
Rated up to +105°C	Compatible with Molex 0.30mm Pitch Easy-On BackFlip FPC Connector, series 502598
Ensures simple ZIF assembly process	Ideal for microminiature electrical connections between PCB's, display boards etc.
Terminates to Molex FPC connector series 502598	502598 series is a Core Micro Product; guaranteed minimum 10 year life-cycle



Premo-Flex Etched Polyimide Jumpers with Easy-On BackFlip FPC Connector, Pitch, Series 502598



Applications

Data / networking / telecoms

- Mobile phone / smart phone
- Digital still camera
- Tablet computer

Medical

Compact, handheld devices



Compact medical applications



Compact consumer applications

Specifications

REFERENCE INFORMATION

Packaging: Box
 Flame Resistance: UL 758 WV-1
 Mates With: 0.30mm pitch FPC connectors, series 502598
 Designed In: Millimeters
 RoHS: Yes
 Halogen Free: Yes

MECHANICAL

Temperature Rating: -40 to +105°C
 Heat Resistance: 96 hours at +85°C
 Moisture Resistance:
 Mate with Molex series 502598 and expose to 40°C, relative humidity 98-95% for 96 hours. Part then conditioned at ambient for 1 hour, then specified measurements performed
 Folding: Specimen to be folded manually at +180°C over a 4.00mm (.157") radius, min. 20 cycles

ELECTRICAL

Voltage: 50V AC/DC max.
 Current: 0.2A max.
 Dielectric Withstanding Voltage: 200V AC for 1 minute, no disrupted discharge
 Insulation Resistance: 50 Megohms/ km min.
 Conductor Resistance: 60 milliohm max.
 Halogen Free: Yes

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Ordering Information

Circuits	Order No.	Length inches	Length mm	Width inches	Width mm
23	15015-0223	2	50.8	0.283	7.2
	15015-0423	4	101.6		
	15015-0623	6	152.4		
	15015-0823	8	203.2		
	15015-1023	10	254		
25	15015-0225	2	50.8	0.307	7.8
	15015-0425	4	101.6		
	15015-0625	6	152.4		
	15015-0825	8	203.2		
	15015-1025	10	254		
27	15015-0227	2	50.8	0.331	8.4
	15015-0427	4	101.6		
	15015-0627	6	152.4		
	15015-0827	8	203.2		
	15015-1027	10	254		
29	15015-0229	2	50.8	0.354	9
	15015-0429	4	101.6		
	15015-0629	6	152.4		
	15015-0829	8	203.2		
	15015-1029	10	254		
33	15015-0233	2	50.8	0.403	10.2
	15015-0433	4	101.6		
	15015-0633	6	152.4		
	15015-0833	8	203.2		
	15015-1033	10	254		
39	15015-0239	2	50.8	0.472	12
	15015-0439	4	101.6		
	15015-0639	6	152.4		
	15015-0839	8	203.2		
	15015-1039	10	254		
45	15015-0245	2	50.8	0.543	13.8
	15015-0445	4	101.6		
	15015-0645	6	152.4		
	15015-0845	8	203.2		
	15015-1045	10	254		
51	15015-0251	2	50.8	0.614	15.6
	15015-0451	4	101.6		
	15015-0651	6	152.4		
	15015-0851	8	203.2		
	15015-1051	10	254		

www.molex.com/product/premoflex_ffc-fpc.html

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