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Part Number:

0459703715

Status:

Active

Overview:

SEARAY and SEARAY Slim Mezzanine Family

Description:

1.27mm Pitch, SEARAY Plug, 300 Circuits, 7.00mm Unmated Height, 10 Rows, with Pegs, Solder Charge Lead-Free

Documents:

3D Model	Product Specification TS-45970-002-001 (PDF)
Drawing (PDF)	Application Specification AS-45970-002-001 (PDF)
Product Specification PS-45970-001-001 (PDF)	Application Specification AS-45970-990-001 (PDF)
Product Specification PS-45970-002-001 (PDF)	Packaging Specification PK-45970-001 (PDF)
Product Specification TS-45970-0007-001 (PDF)	Packaging Specification PK-45970-002 (PDF)
Product Specification TS-45970-001-001 (PDF)	RoHS Certificate of Compliance (PDF)

Agency Certification

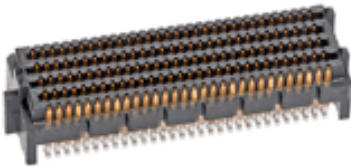
CSA	LR19980
UL	E29179

General

Product Family	PCB Headers
Series	45970
Application	Board-to-Board, Signal
Electrical Model	Yes
Overview	SEARAY and SEARAY Slim Mezzanine Family
Product Name	SEARAY
UPC	883906027049

Physical

Breakaway	No
Circuits (Loaded)	300
Circuits (maximum)	300
Color - Resin	Black
Durability (mating cycles max)	100
First Mate / Last Break	No
Flammability	94V-0
Glow-Wire Capable	No
Guide to Mating Part	Yes
Keying to Mating Part	Yes
Lock to Mating Part	None
Material - Metal	Copper Alloy
Material - Plating Mating	Gold
Material - Plating Termination	Tin
Material - Resin	High Temperature Thermoplastic
Net Weight	7.134/g
Number of Rows	10
Orientation	Vertical
PCB Locator	Yes
PCB Retention	Yes
PCB Thickness - Recommended	1.60mm
Packaging Type	Embossed Tape on Reel
Pitch - Mating Interface	1.27mm
Pitch - Termination Interface	1.27mm
Plating min - Mating	0.762µm
Plating min - Termination	2.540µm
Polarized to Mating Part	Yes
Polarized to PCB	Yes
Robotic Placement	Pick and Place Cap



Series image - Reference only

EU ELV

Not Relevant

EU RoHS

Compliant

REACH SVHC

Not Contained Per
-ED/01/2018 (15
January 2018)

Halogen-Free

Status

Low-Halogen

Need more information on product
environmental compliance?

Email productcompliance@molex.com
Please visit the [Contact Us](#) section for any
non-product compliance questions.

China ROHS	Green Image
ELV	Not Relevant
RoHS Phthalates	Not Contained

Search Parts in this Series

45970 Series

Mates With

45971 SEARAY Receptacle

Shrouded	No
Stackable	No
Surface Mount Compatible (SMC)	Yes
Temperature Range - Operating	-55°C to +125°C
Termination Interface: Style	Surface Mount
Unmated Height	7.00mm
Electrical	
Current - Maximum per Contact	2.7A
Voltage - Maximum	240V AC
Solder Process Data	
Duration at Max. Process Temperature (seconds)	003
Lead-freeProcess Capability	REFLOW
Max. Cycles at Max. Process Temperature	001
Process Temperature max. C	260
Material Info	
Reference - Drawing Numbers	
Application Specification	AS-45970-002-001, AS-45970-990-001
Electrical Model Document	EE-45970-007, EE-45970-010, EE-45970-015, EE-46556-0085
Packaging Specification	PK-45970-001, PK-45970-002
Product Specification	PS-45970-001-001, PS-45970-002-001, TS-45970-0007-001, TS-45970-001-001, TS-45970-002-001
S-Parameter Model	SP-45970-007, SP-45970-010, SP-45970-015
Sales Drawing	SD-45970-001-001
Symbol/Footprint Data	SYM-45970-3715

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