

DIFFERENTIAL PAIR ARRAY DPAM SERIES

SPECIFICATIONS

For complete specifications and recommended PCB layouts see www.samtec.com?DPAM

- Insulator Material:** Black Liquid Crystal Polymer
- Contact Material:** Copper Alloy
- Plating:** Au over 50µ" (1,27µm) Ni
- Current Rating (2x3):** 2.9A @ 30°C Temperature Rise
- Operating Temp Range:** -55°C to +125°C
- Contact Resistance:** 10.4mΩ max
- Working Voltage:** 300 VAC
- Mated Cycles:** 100 Cycles
- RoHS Compliant:** Type -1: No Type -2: Yes

- Processing:**
 - Max Processing Temp:** Type -1: 230°C for 60 seconds Type -2: 230°C for 60 seconds, or 260°C for 20 seconds 3x
 - Lead-Free Solderable:** Type -1: No Type -2: Yes

Mates with: DPAF, RDPAF



Low Insertion/ Extraction Forces

Differential Pairs

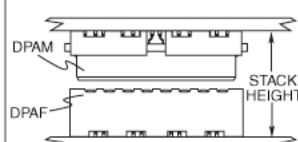
Performance of up to a terabit per connector

Perimeter grounds

Staggered pitch DPAM/DPAF	Rated @ -3dB Insertion Loss*
10mm Stack Height	
Single-Ended Signaling	5.5 GHz / 11 Gbps
Differential Pair Signaling	4 GHz / 8 Gbps

*Data based on Final Inch® simulations

APPLICATION



DPAM LEAD STYLE	DPAF LEAD STYLE
-07.0	10mm
-14.0	17mm

Staggered layout reduces grounds required

Solder crimped to tails

DPAM - **PAIRS PER ROW** - **LEAD STYLE** - **PLATING OPTION** - **NO. OF ROWS** - **SOLDER TYPE** - **A** - **OPTION**

-08, -15, -23 Specify LEAD STYLE from chart

-H = 30µ" (0,76µm) Gold on contact area, Gold Flash on solder tail (-07 only)

-S = 30µ" (0,76µm) Gold on contact area, Tin on solder tail (-14 only)

-8 = Eight Pair Rows

-3 = Three Pair Rows

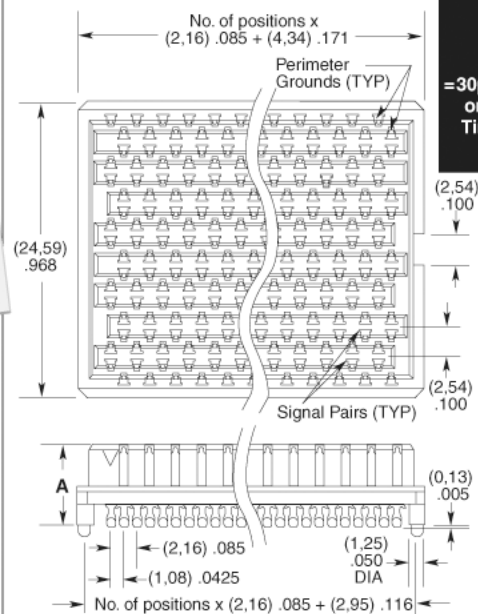
-1 = 63% Sn/ 37% Pb Solder Crimp

-2 = Lead-Free Tin Alloy 96.5% Sn/ 3% Ag/ .5% Cu Solder Crimp

-K = (20,00 mm) 0.80" DIA Polyimide film Pick & Place Pad

-TR = Tape & Reel

-GP = Guide Post (-23 only)



LEAD STYLE	A
-07.0	(6,66) .262
-14.0	(13,66) .538

SIZE	USABLE PAIRS PER ARRAY*
-08 x -8	48 Pairs
-15 x -8	104 Pairs
-23 x -8	168 Pairs
-08 x -3	18 Pairs
-15 x -3	39 Pairs
-23 x -3	63 Pairs

*Assumes first and last pair in each row are grounded

-14.0 PRELIMINARY



Note: Some sizes, styles and options are non-standard, non-returnable.

Due to technical progress, all designs, specifications and components are subject to change without notice.

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