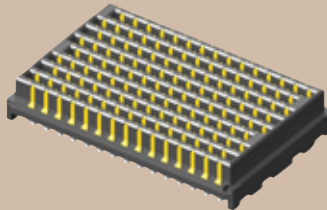
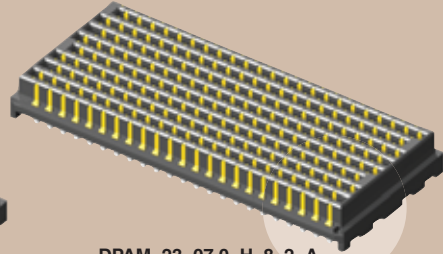




DPAM-15-07.0-H-8-2-A



DPAM-23-07.0-H-8-2-A



# DIFFERENTIAL PAIR ARRAY DPAM SERIES

## SPECIFICATIONS

For complete specifications and recommended PCB layouts see [www.samtec.com?DPAM](http://www.samtec.com?DPAM)

**Insulator Material:**

Black LCP

**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:**

Yes

**Processing:**

**Max Processing Temp:**

230°C for 60 seconds, or

260°C for 20 seconds 3x

**Lead-Free Solderable:**

Yes



Mates with:  
DPAF, RDPAF

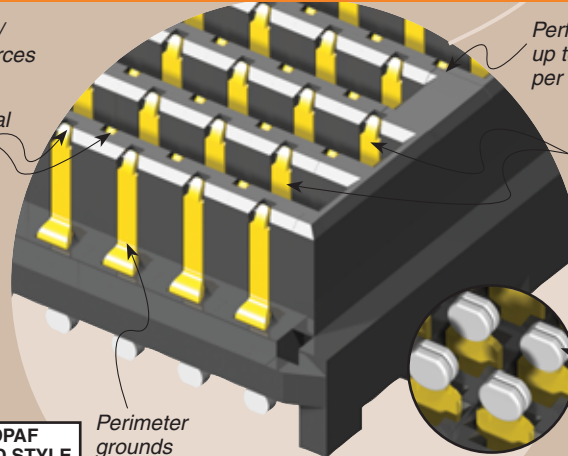


Low Insertion/  
Extraction Forces

Differential  
Pairs

Performance of  
up to a terabit  
per connector

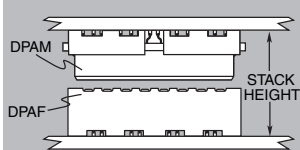
Staggered  
layout  
reduces  
grounds  
required



Perimeter  
grounds

Solder  
crimped  
to tails

## APPLICATION



DPAM LEAD STYLE	DPAF LEAD STYLE
-07.0	10mm
-11.0	14mm
-14.0	17mm

Staggered pitch DPAM/DPAF	Rated @ -3dB Insertion Loss
10mm Stack Height	
Differential Pair Signaling	7.0 GHz / 14.0 Gbps

**Application Notes**

Rapid I/O (SRIO)  
XAUI  
PCI Express®  
SATA

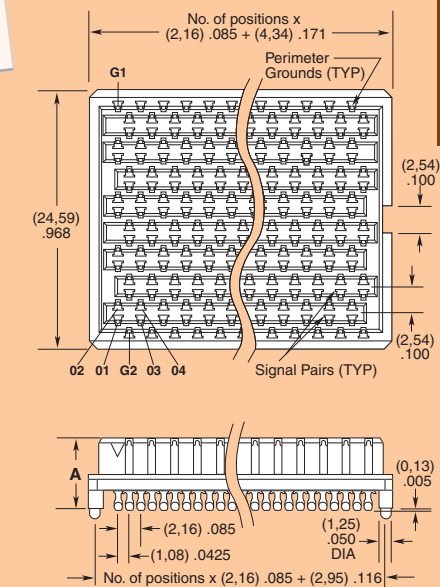
Download at  
[www.samtec.com/appnote](http://www.samtec.com/appnote)

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)	-8 =Eight Pair Rows  -3 =Three Pair Rows (-07 only)	-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 & -07 only)

### DIFFERENTIAL APPLICATIONS

ARRAY	PAIR COUNT*
8x8	48
15x8	104
23x8	168
08x3	18
15x3	39
23x3	63

\*Assumes first and last pair in each row are grounded



LEAD STYLE	A
-07.0	(6,66) .262
-11.0	(10,72) .422
-14.0	(13,66) .538



**ALSO AVAILABLE**

Tin-Lead Solder Charge.  
Call Samtec.

**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.

[WWW.SAMTEC.COM](http://WWW.SAMTEC.COM)