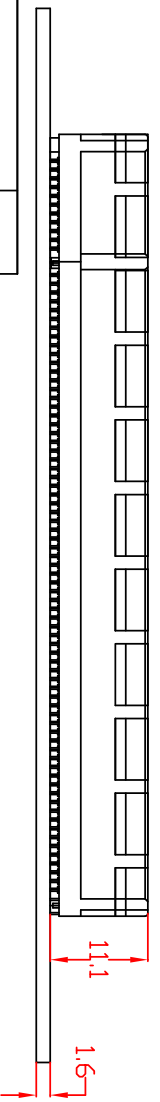
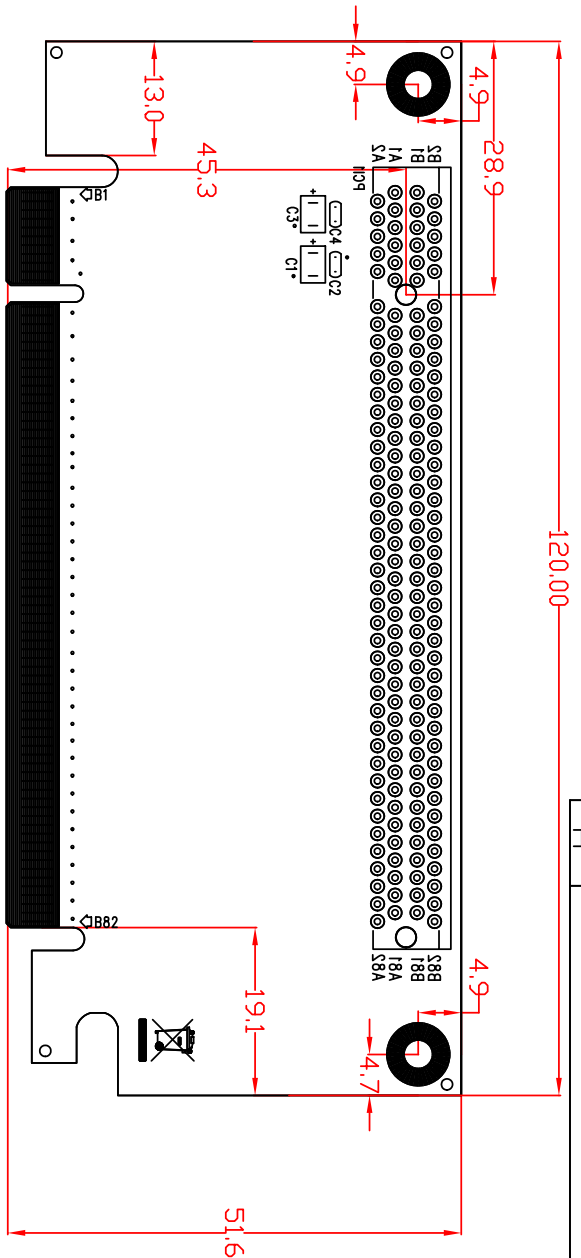
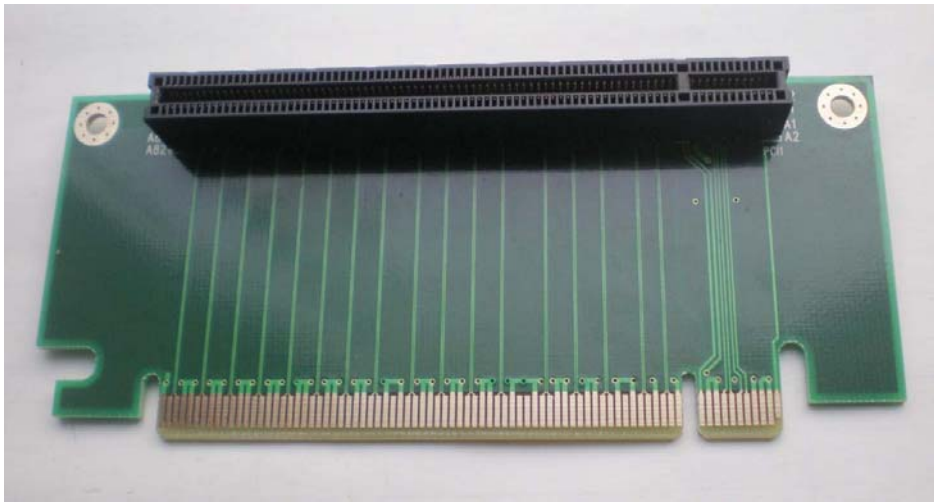


REVISIONS			
REV	DESCRIPTION	DATE	MODIFIED BY
A		10/27	TANK



ITEM	PART NAME	MATERIAL/FINISH	QTY
1	PCB	4LFR4 94V0 120X51.6	1
2	SLOT	PCI-E 16X DIP	1
3			
4			
5			
6			

LKF		MTL. SPEC.	UNSPECIFIED TOL'S		MODEL NO:
APPROVED BY	JAMES	UNIT	X.XX ±0.15		
CHECKED BY	ZHOU	SCALE	XXX.XX ±0.25		
DESIGNED BY	TANK	SCALE	ANGULAR ±1.0°		
DRAWN BY	TANK	SIZE	DRAWING NO.		REV. SHEET
		A4	LKF373		A 1



材料組成成份表
Component composition table

part number 客人料號	Vendor Name 供應商	品名	原材料名稱Raw materials	原材料品號Material No.	生產廠家Vendor		ICP Test Result (ppm)						ICP Report		Notes
					NAME	產地	Cd	Pb	Hg	Cr6+	PBBs	PBDEs	報告編號 Report Number	報告日期 Report date	
02330000021A	立科富	LKF373	PCB	PCB (LKF373 V1.0)	恒寶士	深圳	ND	7	ND	ND	ND	ND	CANEC1005486204	2011/1/5	
			SMT電容	SMT 電容103P等	瑞捷	深圳	ND	ND	ND	ND	ND	ND	KA/2011/10557	2011/1/21	
			LCP	PCI-Express 16X	承豐	深圳	ND	ND	ND	ND	ND	ND	CE/2011/37524	2011/4/8	
			黃銅(C2680)				ND	ND	ND	Negative	ND	ND	SHAEC1013501119	2010/9/19	
			鍍錫/鍍				ND	18	ND	Negative	/	/	CANEC1102660603	2011/7/13	
			錫		愛佳法	深圳	3	44	ND	Negative	ND	ND	CANEC1100583809	2011/3/4	

制表:周小琴

審核:周小琴

核準:譚清安



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 Customer service: 1 877 454 3577

SHENZHEN HENG BAO SHI P C B CO LTD
 MR WU
 1ST INDUSTRIAL ZONE, 2ND BLK
 FU YONG TOWN
 XIA SHI WEI VILLAGE
 SHENZHEN GUANGDONG CHINA

Your most recent Certification is shown below. You may also view this information on UL's Online Certifications Directory at www.ul.com. Please review the text and contact the Conformity Assessment Services staff member who handled your project if revisions are required.

Effective June 30, 2004, UL plans to discontinue the distribution of Listing Information Pages in a printed format since this information is readily available via UL's Online Certifications Directory at www.ul.com. To view your company's current Listing Information or for ordering your company's Listing Information in the 3 x 5-inch card format (effective June 30, 2004), please refer to www.ul.com. Prior to June 30, 2004, orders for the 3 x 5-inch Listing Cards can be ordered using the enclosed form. If you have any questions or comments about the discontinuance of the printed Listing Information Pages, please email Susan Druktenis at Susan.M.Druktenis@us.ul.com.


ZPMV2
 Wiring, Printed - Component

April 23, 2004

SHENZHEN HENG BAO SHI P C B CO LTD
 1ST INDUSTRIAL ZONE, 2ND BLK FU YONG TOWN XIA SHI
 WEI VILLAGE, SHENZHEN GUANGDONG CHINA

E200704

Type	Cond Width		Cond Thk mic(mil)	SS/ DS	Max Area Diam mm(in)	Solder Limits		Max Oper Temp C	Flame Class	Meets UL796 DSR	C T I
	Min mm(in)	Min Edge mm(in)				C	sec				
Multilayer printed wiring boards.											
BF-8	0.13(0.005)	0.34(0.015)	17(0.67)	DS	25.4(1.0)	260	10	120	V-0	All	-
Single layer printed wiring boards.											
BF-1	0.2(0.008)	0.48(0.019)	34(1.34)	SS	25.4(1.0)	260	10	105	HB	▲	-
BF-2	0.18(0.007)	0.54(0.021)	34(1.34)	SS	25.4(1.0)	260	10	105	V-0	▲	-
BF-3	0.13(0.005)	0.38(0.015)	34(1.34)	SS	25.4(1.0)	260	10	130	V-0	All	-
BF-4	0.23(0.009)	0.48(0.019)	34(1.34)	SS	25.4(1.0)	260	10	130	V-0	All	-
BF-5	0.13(0.005)	0.38(0.015)	17(0.67)	DS	25.4(1.0)	260	10	130	V-0	All	-
BF-6	0.13(0.005)	0.38(0.015)	34(1.34)	DS	25.4(1.0)	260	10	130	V-0	All	-
BF-7	0.23(0.009)	0.48(0.019)	34(1.34)	SS	25.4(1.0)	260	10	130	V-0	All	-

Marking: Company name or trademark  and type designation. May be followed by a suffix to denote factory identification.

See General Information Preceding These Recognitions
 For use only in equipment where the acceptability of the combination is determined by Underwriters Laboratories Inc.

An independent organization working for a safer world with integrity, precision and knowledge

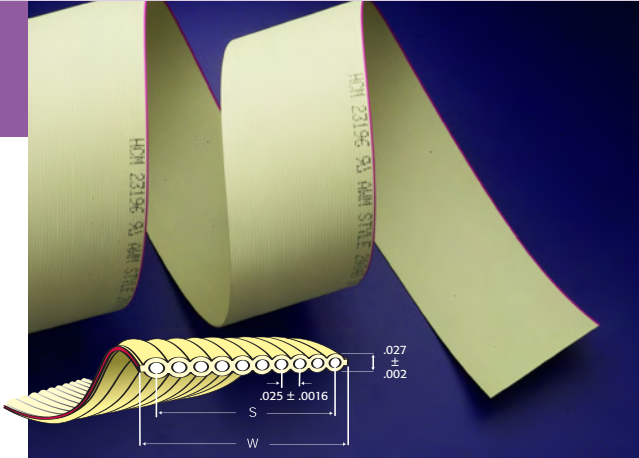
911000001

Page 1



0.025" TPO Stranded & Solid Microzip Ribbon

16



RED POLARITY STRIPE ON #1 COND EDGE.

UL Style: 20848
 UL Voltage Rating: 30V
 UL Temp: 105°C

CSA Style: AWM I A/B FT- 1
 CSA Voltage Rating: 150V
 CSA Temp: 105°C

- Tight tolerances on 0.025" pitch flat ribbon cable.
- Compliant for today's new high speed termination machinery, offering tight tolerances on pitch and span.
- UL and CSA approved (cable is printed UL/CSA)
- 80 Conductor Ultra ATA 100 Compliant.

APPLICATIONS Ultra ATA 33, 66, 100 and 133. SPI, SPI-2, SPI-3 and some SPI-4. SCSI Fast XX.

Eco-Index: RoHS Values				
<90ppm	<5ppm	<5ppm	<5ppm	<1000ppm
Pb	Cd	Cr+6	Hg	PBDE's PPB's



PHYSICAL CONSTRUCTION DESCRIPTION SCSI Fast-XX/SPI-2 & SPI-3 compliant, this Microzip cable consists of 30 AWG solid silver-plated copper. 31 or 32 AWG are available. The silver plated copper is fully extruded with HCM's unique Thermoplastic Olefin. A red polarity stripe is co-extruded into position number one for easy identification. Since the polarity stripe is physically extruded into the edge of position one, no chipping or flaking will occur. No hazardous inks are used for the stripe. Standard color is light yellow with a red polarity stripe (violet for 32 AWG).

Series No.	Conductor AWG Stranding Coating	Insulation	Conductor Resistance Ω/Mft. @ 20°C	Capacitance		Impedance		Propagation Delay	
				pF/ft. (G-S)	pF/ft. (G-S-G)	(G-S-G) (Ohms) SE	(G-S) (Ohms) Diff.	ns/ft.	Skew ns/ft. (Max.)
23196	30 AWG 7/38 TC	TPO	106	8.8	15.7	82	123	1.44	0.030
23203	30 AWG Solid SC	TPO	104	9.1	15.5	90	130	1.45	0.025

Part No.	Insulation	No. of Conductors	Width "W"	Span "S"	Pitch Tolerance	Standard Put-ups
23196-26-P-00100	TPO	26	0.650"	0.625" ± 0.005"	± 0.0016"	100'
23196-34-P-00100	TPO	34	0.850"	0.825" ± 0.005"	± 0.0016"	100'
23196-40-P-00100	TPO	40	1.000"	0.975" ± 0.005"	± 0.0016"	100'
23196-50-P-00100	TPO	50	1.250"	1.225" ± 0.005"	± 0.0016"	100'
23196-64-P-00100	TPO	64	1.600"	1.575" ± 0.005"	± 0.0016"	100'
23196-68-P-00400	TPO	68	1.700"	1.675" ± 0.005"	± 0.0016"	400'
23196-80-P-00400	TPO	80	2.000"	1.975" ± 0.005"	± 0.0016"	400'
23203-34-P-00200	TPO	34	0.850"	0.825" ± 0.005"	± 0.0016"	200'
23203-50-P-00100	TPO	50	1.250"	1.225" ± 0.005"	± 0.0016"	100'
23203-68-P-00400	TPO	68	1.700"	1.675" ± 0.005"	± 0.0016"	400'
23203-80-P-00400	TPO	80	2.000"	1.975" ± 0.005"	± 0.0016"	400'

Other conductor counts available upon request. All data is for reference only and is subject to change.



Mike Gallant
Quality Manager
mgallant@hcm.hitachi.com

Hitachi Cable Manchester, Inc.
900 Holt Avenue Manchester, NH 03109 800.772.0116 Fax: 603.669.9621 www.hcm.hitachi.com



Materials Report

Shipped To: Hitachi Cable Asia Ltd - Taipei

1. Product

No	Product Description	Part Number	HCM #	QTY	Customer PO
1	TPO Microzip	R3001-51-XXS	23203-XX		

1. Material Substance Declaration

No.	Substances	Contains*		Notes
		YES	NO	
1	Lead and Lead Compound		X	<1000ppm
2	Mercury and Mercury Compound		X	<1000ppm
3	Cadmium and Cadmium Compounds		X	<100ppm
4	Hexavalent Chromium Compounds		X	<1000ppm
5	Polybrominated Biphenyls (PBBs)		X	<1000ppm)
6	Polybrominated Diphenyl Ethers (PBDEs)		X	<1000ppm

*Yes; Intentionally added No; Not Intentionally added

3. Remarks

- 1). The results mentioned herein are based on documents, information and data currently available to HCM.
- 2). EU Directive [Restriction of the use of Certain Hazardous Substances in Electrical and Electronic Equipment]
- 3). Applicable to the products manufactured from December 2004.

Michael Stankus

Authorized Signature

Quality Manager

Title

9 July 2007

Date

we're obsessed with making great cable