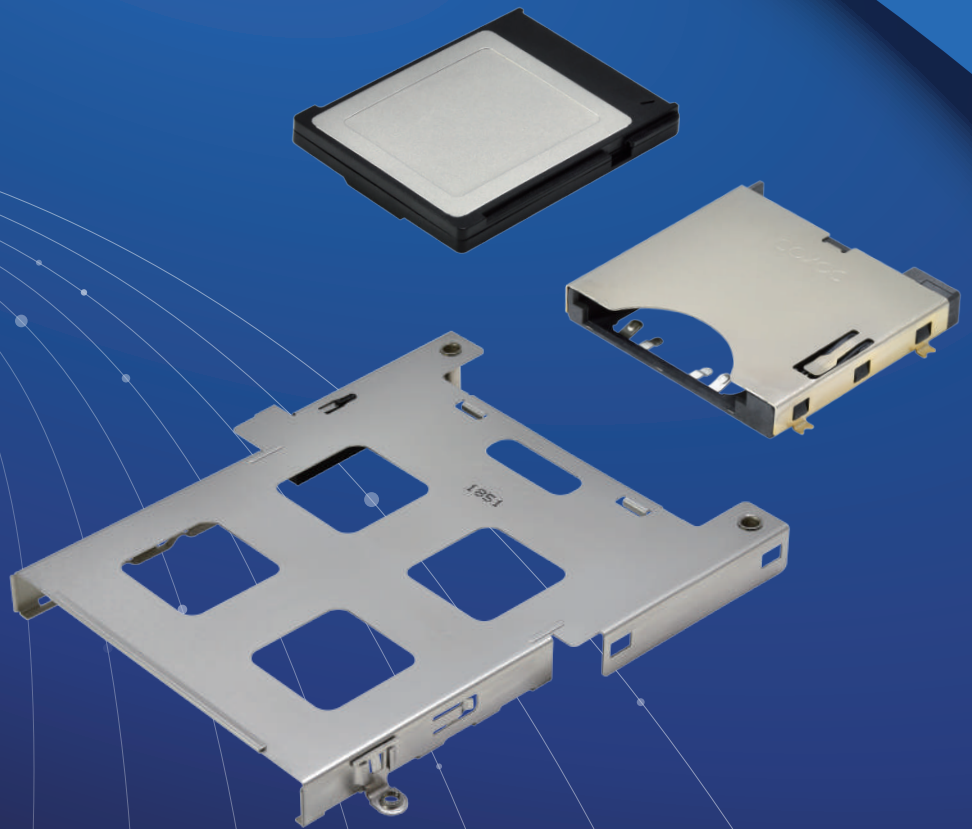




詮欣股份有限公司
CHANT SINCERE CO., LTD.

CFexpress CFast





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About Chant Sincere



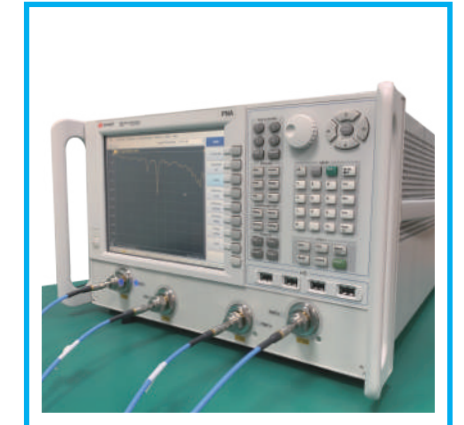
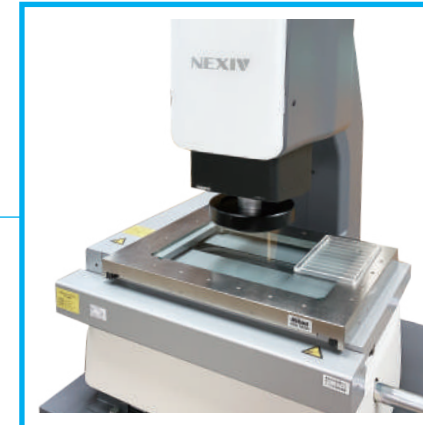
- **Chant Sincere Co., Ltd.** was set up in 1985., With the management concept of “Honest, Innovative, Quality, Longterm” to design and manufacture connector and cable. Keep developing new innovative products and integrating vertically from R&D, tooling, assembly and quality control to meet the demands (quality/cost/delivery) from customers. Chant Sincere Co., Ltd. has been constructing various of product families to provide a total solution to customers.
The connector and cable products are widely used in many different application , such as Computing, Industrial & Automation, Telecommunication, Automotive, Waterproof, Consumer and Medical Industry.

- **Chant Sincere** won the “National Bedrock Award” & “Small Giant Award” from Taiwan Connector maker competition and got many “Best Supplier Awards” from Global customers. We are focusing on improving our design and manufacture technology, and we have been applying for a lot of international patents for our products including I/O connector, Board to Board Connector, Waterproof Connector, Industrial Connector, Automotive Connector, Memory Card Connector and Adaptor, High Speed connector/cable (USB3.1), Audio & Vidio connector and cable (HDMI,Display Port)...etc.
Chant Sincere Co., Ltd. has been growing up as a global professional manufacturer for connector and cable.

The Core Competence of Chant Sincere Co.,Ltd. including.

- Over 37 Years Manufacture Experience
- ODM/OEM Capability
- Vertical Integration (Design, Tooling, Manufacturing, Test)
- Automation Capability
- Precise Tooling Center
- Wide Range of Product Line
- Systematic Testing Process
- Customized Capability
- Quality System (ISO,IATF)
- National Awards Rising Sun Awards/Best Supplier Awards

ISO13485
IATF16949
ISO14001
ISO9001



Quality Systems

COXOC Quality Assurance department meets our customers' quality requirements by practicing continual improvement in our quality assurance processes and increasing customers' satisfaction in the quality of our products.

The effectiveness of COXOC QA operation is certified by well-known organizations such as ISO9001 Quality Assurance Management System, ISO 14001 Environmental Management System, ISO/IATF 16949 for Automobile Industry Quality Management System, and ISO13485 Medical Devices Quality Management System, COXOC integrated supply chain and devoted staff has enabled us to build a solid foundation and core capability to better serve our customers. It is COXOC principal to always meet and exceed customer expectation by providing superior products and services. COXOC ultimate goal is to create value for our customers by building collaborative and mutually beneficial relationships.

Competencies & Technology

The R&D Center at Chant Sincere leads the industry in research, design, and manufacturing of numerous key parts. This center has successfully developed for both wired and wireless solutions for computer peripherals, communication systems, and automobiles/industrial/medical equipment. Our solid R&D team formed a strong foundation in advance manufacturing technology and superior quality control that also enabled high value adding service for customers.

USB type C connectors is an example of the fruits of our research. This miniature and unidirectional interface provides many useful functions such as lighting data transfer rate up to 10 Gbits/s, DP ALT Mode high-definition video signal support, and brilliant 100W charging capability. Chant Sincere advanced the research further into higher specs such as USB 3.2 and USB 4.0 and offers customized solution for various of industrial applications. We delivered comprehensive solutions in bridging the diverse need for new interface and solve on-going product design issues for customers.

QSFP-DD is an ultra-fast interface that transmit data at 400Gbps speed. At this speed, stringent requirement for signal integrity and operating temperature is inviable which imposed huge challenges for the industry. At Chant Sincere, we implemented comprehensive computational software, state of art measuring equipment and eminent R&D capability to aid the solution delivering process. The analysis process includes simulation under CST MSW (Time Domain Simulation), ANSYS HFSS (Frequency Domain Simulation) for signal integrity as well as real-time measurement using test boards and PNA (up to 43.5GHz) to deliver quality reports for signal integrity (S-parameter, Gain compression, conversion gain/loss, noise level). We further performed simulation of its operating temperature using Icepak (Heat transfer and fluid flow simulator). This enabled the performance optimization for heat dissipation solution. With the above R&D skills we successfully delivered the desired professional service within the shortest time frame for our customers.



CFexpress



CFexpress Application

- Professional video features are growing more powerful, with 4K video enjoying widespread use and 8K video already gaining adoption in high-end production environments. Ultra-High Definition TV production environments need more advanced digital formats, such as RAW 4K @ 60 frames per second, which requires reliable and sustainable performance of 700MB/sec and higher. In addition, next generation video applications, such as 8K and even professional 360/VR productions, produce video with incredibly high throughput that exceed legacy CFA cards' data recording of ~600MB/sec, and can benefit from such new spec which supports up to 3.2GB/sec. (Type C)

CFexpress Type A Host Connector (1 Channel PCIe)

CFexpress Type B Lids (2 Channel PCIe)

CFexpress Type B Host Connector (2 Channel PCIe)

CFexpress Type C & D Host Connector (4 Channel PCIe)

Application

- SSD
- 8K HD-entertainment
- DSC
- Drone
- Storage

Product Characteristics

- PASS PCIe Gen3 and Gen4 Speed
- High data bit rate up to 16 Gbits/s
- Excellent resistance against cross-talk and RF EMC
- Mechanical robustness according to automotive requirements
- THR and THT capable for automated assemblies

CFexpress Type A

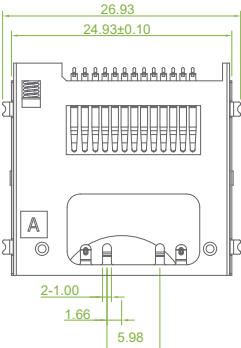
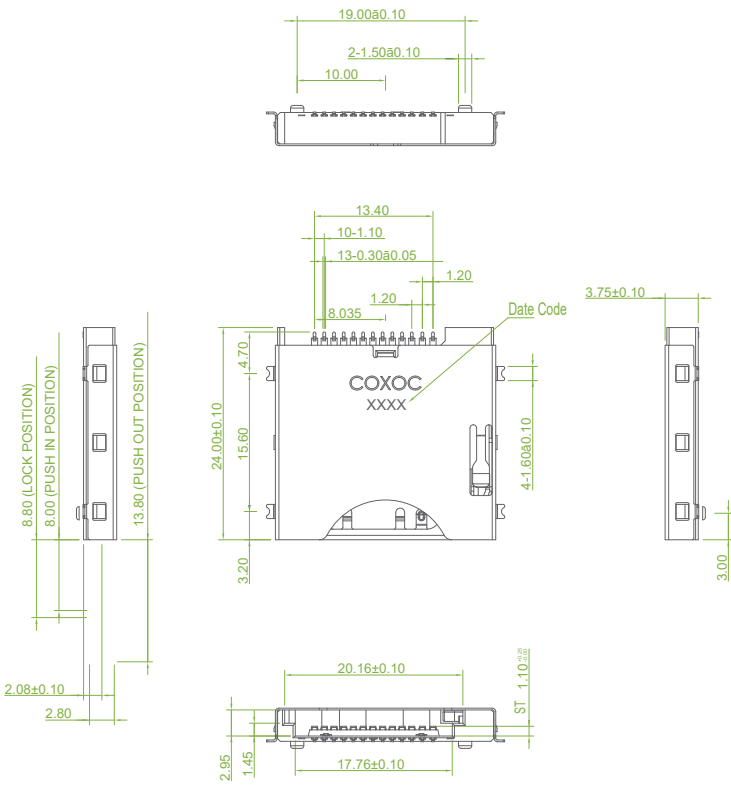


CFexpress Type A
Part No. 752DH13BCTF3J1CC



CFexpress Type A with Shell Ground
Part No. 752DH13BCTF3J2CC

Drawing



PIN DESIGN		
13	GND	Ground
12	PETp0	PCIe Gen3 Tx singal
11	PETn0	PCIe Gen3 Tx singal
10	GND	Ground
9	PERp0	PCIe Gen3 Rx singal
8	PERn0	PCIe Gen3 Rx singal
7	GND	Ground
6	REFCLK+	Reference Clock input
5	REFCLK-	Reference Clock input
4	INS#	Media detection and power control
3	CLKREQ#	Indication of REFCLK to Host
2	+3.3V	3.3V Power Supply
1	PERST#	PCIe Express function reset

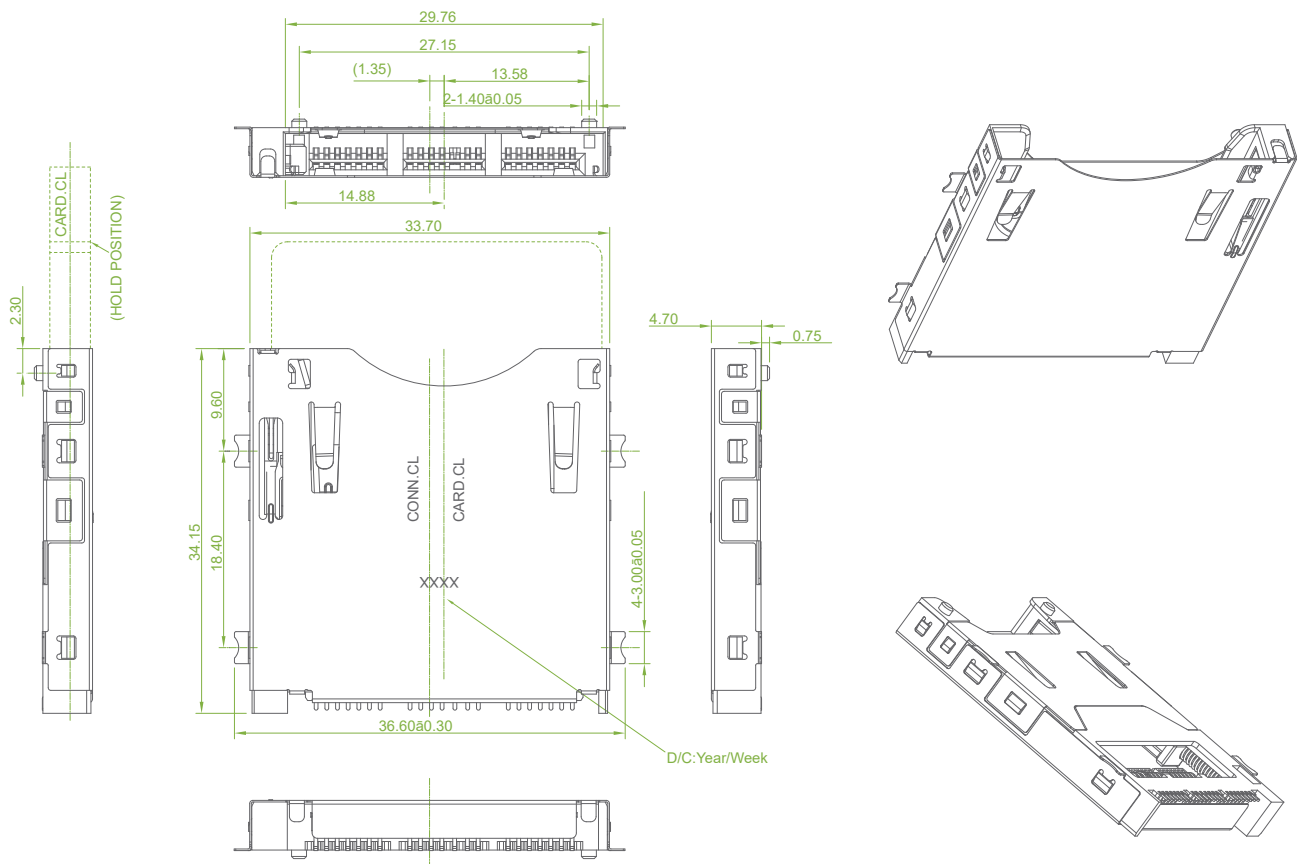
Specification

Description	CFexpress Type A	CFexpress Type A with Shell Ground
Part no.	752DH13BCTF3J1CC	752DH13BCTF3J2CC
Material	Insulator	LCP
	Contacts	YCUT-FX-EH/C17200
	Shell	SUS304 3/4H
	Spring	SWP-B
	Cam Rod	SUS304H
Contact Plating	Under Plate	50u" ~ 120u" Nickel
	Contact Area	5u" Selective Gold
	Solder Tails Area	80u" ~ 200u" Tin (Lead Free)
Electrical	Rated Voltage	500 Vrms AC for 1 Min
	Current Rating	1.0 A Min for Signal pin
		3.0 A Min for Power pin
	Contact Resistance	Initial : 55 M Ohm Max
		Final : 40 M Ohm Max.
	Insulation Resistance	1000 M Ohm Min. at 500 VDC/Minute
	Temperature Range	-25°C to +85°C
	Mating Cycles	12000 Insertions

CFexpress Type B (Push Push)



Drawing

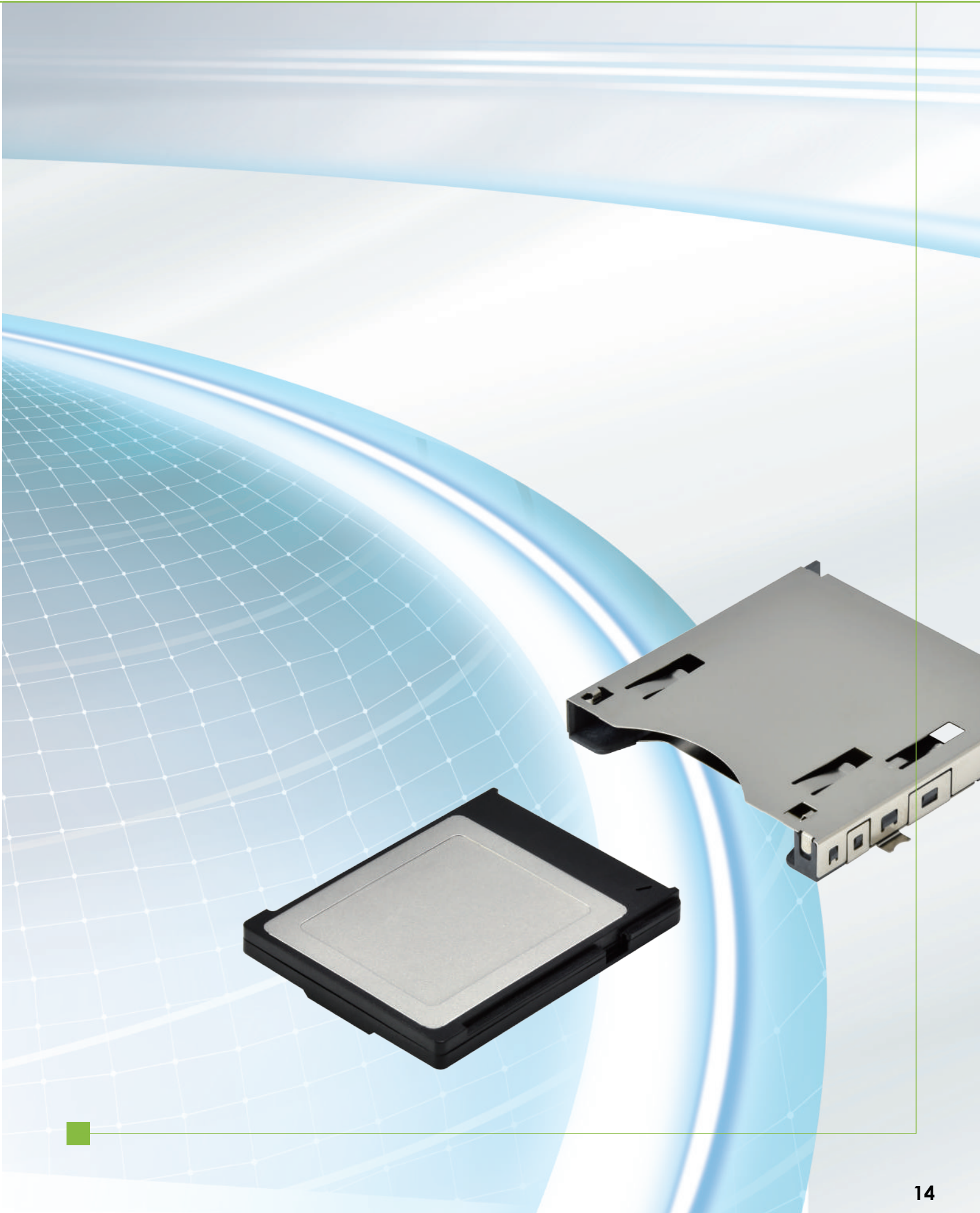


Specification

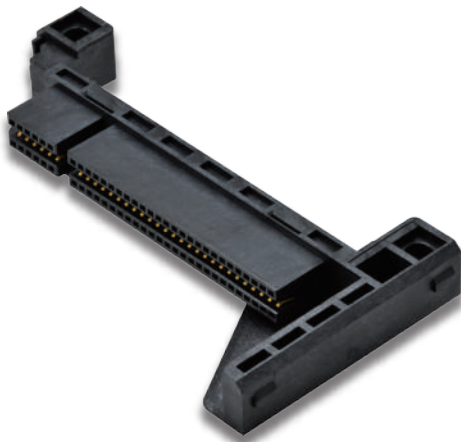
Description			CFexpress Type B (Push Push)
Part no.			752DH21BCTF281C3
Material / Finishes	Insulator	Material	Thermal Plastic UL94V-0
	Contact	Material	Copper Alloy
		Plating	Under Plate:50u" Nickel Contact Area:1u"~30u" Selective Gold Solder Tails Area:80u" Min. Tin/Lead Free (Matte Tin)
	Metal	Material	Stainless
		Plating	Non
	Spring	Material	SWP-B
		Plating	Under Plate: Nickel
Electrical	Rated Current(Max.)	1.0 AMP (DC) Max.	Mate Connector Measure By Dry Circuit. EIA-364-70 Method 2
	Rated Voltage(Max.)	100 V	
	Insulation Resistance	Initial:1000 MΩ Min. Final:100 MΩ Max.	Apply 500 VDC Between Adjacent Terminals or Ground. EIA-364-21
	Contact Resistance	Initial:40 MΩ Max. at initial state. Final:55 MΩ Max.	EIA-364-23B
	Dielectric Strength	No Breakdown	Apply 500 VAC for 1 Minute Between Adjacent Terminals or Ground. EIA-364-20
	Temperature Range	-25°C to +85°C	95% R.H. Max.
	Storage Temperature	-40°C to +100°C	
Mechanical	Insertion Force (Max.)	50 N	Insert Connectors at The Speed Rate of 25±3 Mm/Min.
	Extraction Force (Min./Max.)	4.9 N / 55 N	Retention Connectors at The Speed Rate of 25±3 Mm/Min.
	Retention Force (Min.)	9.8 N	Apply Axial Pull Out Force at 25±3 Mm/Min. on The Assembly in The Housing.
	Durability	10,000 Cycle	Operations Using Memory Card at The Rate of 400-600 Cycles within 1 Hours

■ CFexpress Type B

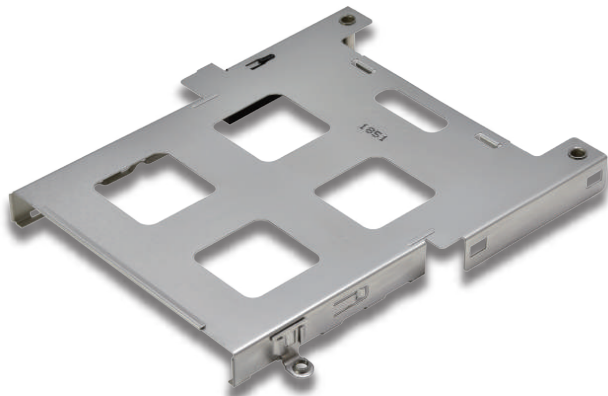
Product List	Description	Part no.
	CFexpress Type B, Non Push	752DH21BCTF2X0C3
	CFexpress Type B, Push Push	752DH21BCTF2X1C3
	CFexpress Type B, Push with Lock	752DH21BCTF2X2C3
	CFexpress Type B, Top Lid	S752SG21P00F41A3
	CFexpress Type B, Bottom Lid	S752SG21P00F42A3



CFexpress Type C & D Connector

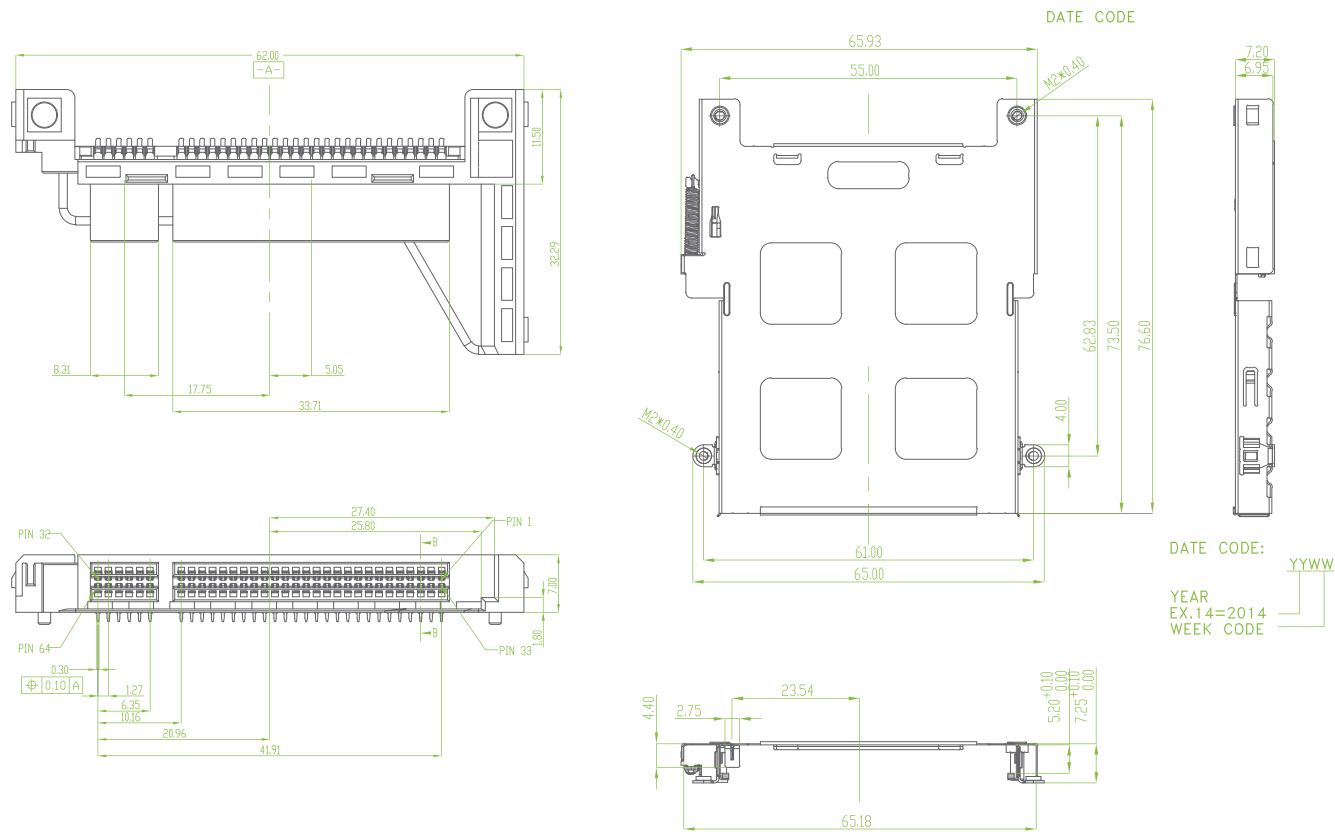


CFexpress Type C & D Connector
Part No. C-S752JHXXBDTF10A3



CFexpress Type C & D Bracket
Part No. S752JH64BDTF11A3

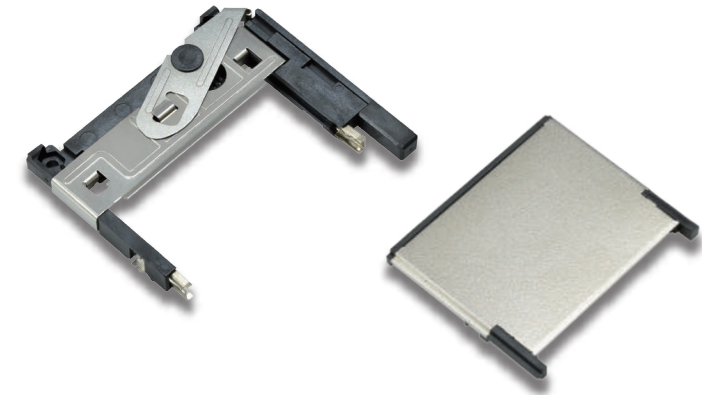
Drawing



Specification

Description	CFexpress Type C & D Connector		CFexpress Type C & D Bracket
Part no.	S752JHXXBDTF10A3		S752JH64BDTF11A3
Material / Finishes	Insulator	Material	Thermal Plastic UL94V-0
	Contact	Material	Copper Alloy
		Plating	Under Plate:50u" Nickel Contact Area:1u"~30u" Selective Gold Solder Tails Area:100u"~200u" Tin/Lead Free (Matte Tin)
	Metal	Material	Stainless
		Plating	Non
	Spring	Material	Copper Alloy
		Plating	Under Plate : 50u" Nickel
Electrical	Rated Current(Max.)	3.0 AMP (DC) Max.	Mate Connector Measure by Dry Circuit.
	Rated Voltage(Max.)	100 V	
	Insulation Resistance	1000 MΩ Min.	Apply 500 VDC Between Adjacent Terminals or Ground.
	Contact Resistance	40mΩ Max. at initial state. 60mΩ Max. after endurance test.	Mate Dummy Card Measure by Dry Circuit, 20mV Max, 10m A.
	Dielectric Strength	No Breakdown	Apply 500 VAC for 1 Minute Between Adjacent Terminals or Ground
	Temperature Range	-55°C to +85°C	95% R.H. Max.
Mechanical	Storage Temperature	-25°C to +65°C	
	Insertion Force (Max.)	50 N	Insert Connectors at The Speed Rate of 25±3 Mm/Min.
	Extraction Force (Min./Max.)	4.9 N / 55 N	Retention Connectors at The Speed Rate of 25±3 Mm/Min.
	Retention Force (Min.)	9.8 N	Apply Axial Pull Out Force at 25±3 Mm/Min. on the Assembly in The Housing.
Durability	10,000 Cycle		Operations Using Memory Card at The Rate of 400-600 Cycles within 1 Hours

CFast



CFast Application

- A variant of CompactFlash known as CFast is based on the Serial ATA bus, rather than the Parallel ATA/IDE bus for which all previous versions of CompactFlash are designed. CFast is also known as CompactFast. CFast 1.0/1.1 supports a higher maximum transfer rate than current CompactFlash cards, using SATA 2.0 (300 MByte/s) interface, while PATA is limited to 167 MByte/s using UDMA 7. The CFast 2.0 specification was released in the second quarter of 2012, updating the electrical interface to SATA 3.0 (600 MByte/s). As of 2014, the only product employing CFast 2.0 cards was the Arri Amira digital production camera, allowing frame rates of up to 200 fps; a CFast 2.0 adapter for the Arri Alexa/XT camera was also released.

Application

- Digital Camera
- Readers for various other Flash media
- Microdrive
- RFID
- Barcode scanner
- GPS
- Wi-Fi
- Ethernet
- Bluetooth

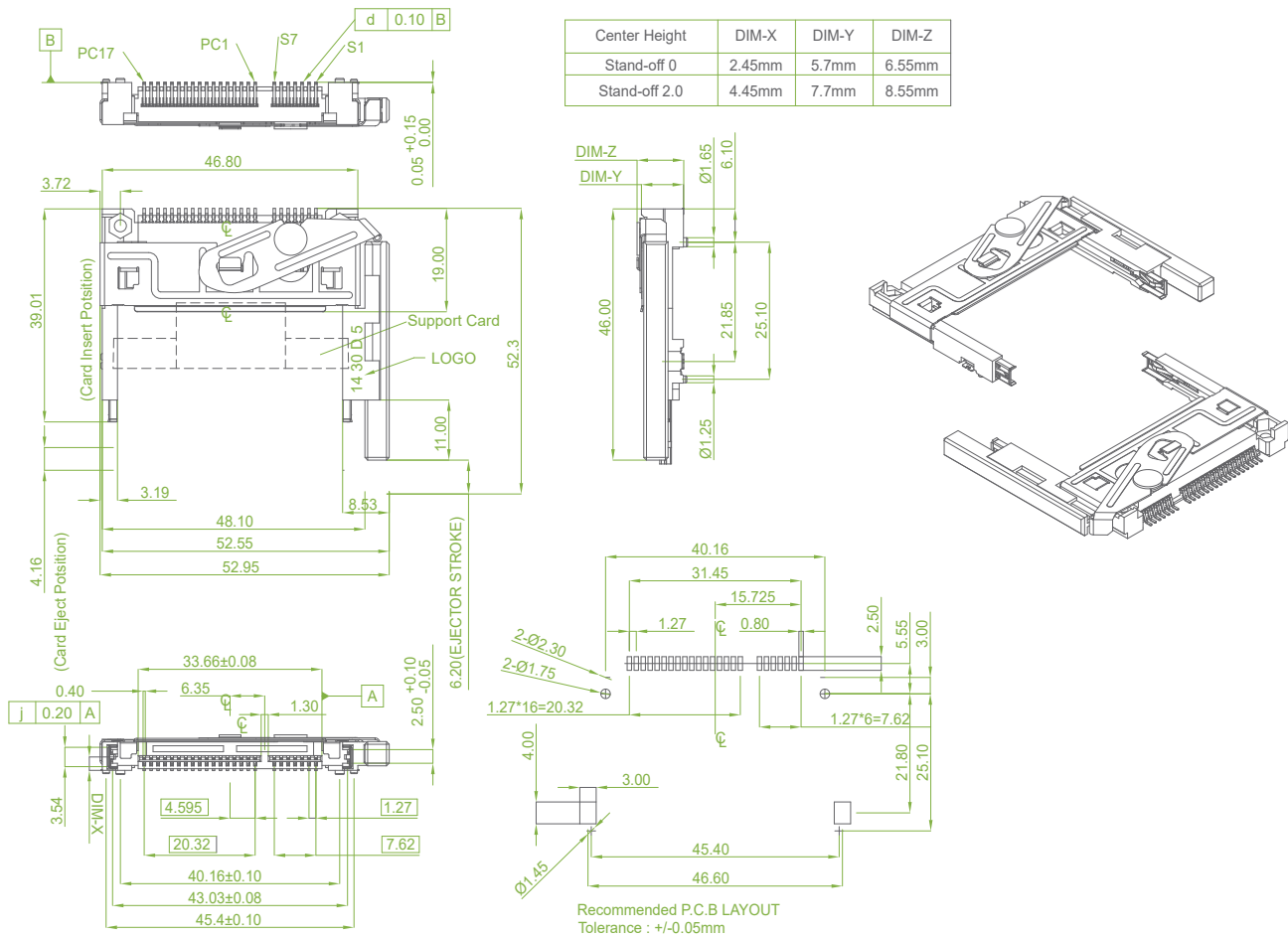
Product Characteristics

- SATA Revision 3.1 compliance with 6.0 Gbps interface speed
Backward compatible with SATA 1.5 and 3.0 Gbps interfaces
7+17 pin Female connector
Supply 3.3 Voltage
Sustained Read: Up to 285 MB/sec ; Write: 260 MB/sec

CFast with Ejector




Drawing



Specification

Description		CFast with Ejector
Part no.		752DH24MCTS32XXX
Material	Insulator	Thermal Plastic ,UL94V-0
	Contact	Copper Alloy
	Shell	Steel
Contact Plating	Under Plate	50u" ~ 100u" Nickel
	Contact Area	15u" Selective Gold
	Solder tails area	100u" ~ 200u" Tin (Lead Free)
Electrical	Current Rating	1.5 Amps Max.
	Contact Resistance	30 Mohms Max.
	Insulation Resistance	1000 Mohms Min. @500 VDC
	Dielectric Withstanding Voltage	500 VAC / Minute
	Temperature Range	-55°C DC to +85°C DC

■ CFast Series

Product List	Description	Part no.
	50Pin, Female, Standard Type, Black	751C02H50FS003
	50Pin, Female, Middle Ear, Black	751C02E68FS303
	50Pin, Male, Black	752CF50MSA0003
	50Pin, Male, Black	S752CO2F50MCA03
	50Pin, SMT Type, 0mm Stand off Distance	752DF50BC10011
	50Pin, SMT Type, 2.2mm Stand off Distance	752DF50BC20011

Product List	Description	Part no.
	50Pin, SMT Type, 1.64mm Stand off Distance	752DF50NC00001
	50Pin, SMT Type, 1.64mm Stand off Distance	752DF50NC01001
	50Pin, SMT Type, Male, 2.2mm Stand off Distance	752DF50MCT1214A1
	50Pin, SMT Type, Male, w/ Pick Pad, 2.2mm Stand off Distance	752DF50MCT1215A1
	50Pin, Slim Type, 2.2mm Stand off Distance	752D02F50CAD301
	50Pin, Slim Type, w/ Pick Pad, 0mm Stand off Distance	752D02F50CRD00P

CFast Series

Product List	Description	Part no.
	50Pin, Slim Type, w/ Pick Pad, 2.2mm Stand off Distance	752D02F50CAD30P
	50Pin, Slim Type, 40.16mm Pos Distance	752D07F50SC1001
	50Pin, Slim Type, 38.74mm Pos Distance	752D07F50SA1001
	50Pin, Slim Type, 40.16mm Pos Distance	752D08F50S21001
	24Pin, Female, Tray, Black	S752DH24FCTS21A3
	24Pin, Bottom Cover	S3752DE24P80S23A

Product List	Description	Part no.
	24Pin, Top Cover	M3752DE24P80S23A
	24Pin, Male, w/o Ejector, 0mm Stand off Height	752DH24MCTS310A3
	24Pin, Male, w/o Ejector, 2.0mm Stand off Height	752DH24MCTS311A3
	24Pin, Male, w/ Ejector, 0mm Stand off Height	752DH24MCTS320A3
	24Pin, Male, w/ Ejector, 2.0mm Stand off Height	752DH24MCTS321A3

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