D-configuration Connectors for Digital Broadcasting Equipment

DXLM Series



Accepts panel thickness up to 3 mm **DXM Series** (Panel thickness up to 1.6 mm thick) DXLM Series

Features

1. Increased range of the mounting panel thickness

Extension of the mating and locking area by 1.5 mm has allowed the DXLM Series to be mounted on panels up to 3mm thick.

2. Effective protection against electrostatic discharge

Unique Hirose Electric design makes reliable ground connection in sequence, with metal shell first, then the board circuit.

3. Temporary board holding feature

Deflecting force of the side protrusion of the insulator's posts against the walls of holes provides superior retention to the board, preventing leaning forward during handling.

4. Superior stability and retention to the board

Solid metal grounding posts are soldered to the board. This creates extremely strong retention to the board, allowing the assembly to retain reliable connections, even when large forces are applied when miss-mating or pulling.

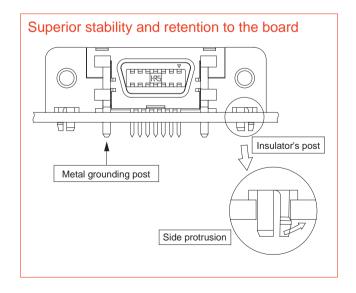
5. RC-5237, EIAJ Standard

Conforms to the requirements for D-configuration connector used in connections for digital image broadcast.

Applications

TV, STB, DVD, LCD TV and other equipment supporting digital broadcasts

Effective protection against electrostatic discharge Static electricity Shell To board



■Product Specifications

Detina	Current rating	1 A DC	Operating temperature range	-25°C to +70°C
Rating	Voltage rating	250 V AC	Operating temperature range	-23 C 10 +70 C

Item	Specification	Conditions	
Contact resistance	80 m ohms max.	100mA DC	
2. Insulation resistance	500 M ohms min.	500 V DC	
3. Withstanding voltage	No flashover or insulation breakdown	500 V AC / one minute	
4. Mating/un-mating forces	30N max. (mating) 4.2N min. (un-mating)	With corresponding connector assembly.	
5. Durability (mating/un-mating)	Contact resistance: 25 m ohms max. variation from initial value No damage, cracks, or parts dislocation	500 cycles	
6. Vibration	No electrical discontinuity of 1 ms or more No damage, cracks, or parts dislocation	Frequency: 10 to 55 Hz, single amplitude of 0.75 mm, 2 hours / 3 axis	
7. Shock	No damage, cracks, or parts dislocation	Acceleration of 490 m/s², 6 ms duration, sine half-wave wave form, 3 cycles in each of the 3 axis	
8. Humidity (Steady state)	Contact resistance: 25 m ohms max. variation from initial value Insulation resistance: 100 M ohms min.	96 hours at 40°C, humidity of 90% to 95%	
9. Temperature cycle	Contact resistance: 25 m ohms max. variation from initial value Insulation resistance: 100 M ohms min.	Temperature: -25 °C> +5 °C to +35 °C> +70 °C> +5 °C to +35 °C Duration: 30> 2 to 3> 30> 2 to 3 (Minutes) 5 cycles	
10. Salt Spray	Contact resistance: 25 m ohms max. variation from initial value	5% salt water solution for 48 hours	

■ Material

Part	Material	Finish	Remarks	
Contact: Receptacle	Brass	Selective gold plating	_	
Contact: Plug	Phosphor bronze	Selective gold plating	_	
Insulator	PBT	Color: Black	UL94V-0	
Shell	Stainless steel	_	_	
Cover	Non-Halogen	Color: Gray	_	
Cable outer insulation	Non-Halogen	Color: Gray	_	

■Ordering Information

Receptacles

Plugs

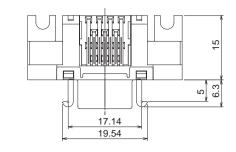
 $\frac{DX}{0}$ $\frac{40}{2}$ $\frac{LM}{0}$ $\frac{14}{0}$ $\frac{PP}{0}$ $\frac{150}{0}$ $\frac{CV}{0}$ $\frac{(50)}{0}$

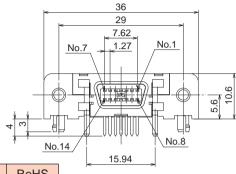
Series name: DXLM		Board mounting type E: Temporary insulator's post	
 Termination type 10: PCB Right-angle through hole type 20: PCB Straight through hole type 40: Soldering type Form type Blank: Standard item 1: Miniature type 2: Miniature panel single screw panel attachment 		 7Cable Harness type PP: D-configuration connector at both ends P: D-configuration connector on one end/single audio connectors on other of the content of the cont	
5 Configuration of mating side S: Receptalce		①Plating (50) : Gold plating	

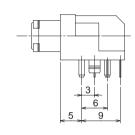
■ Receptacles

● PCB Right-angle through hole type





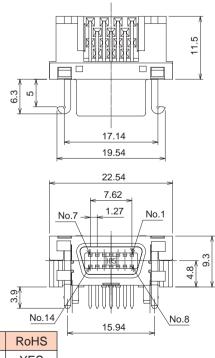


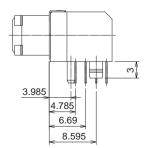


Part Number	CL No.	RoHS
DX10LM-14SE(50)	230-5256-0-50	YES

Miniature PCB Right-angle through hole type



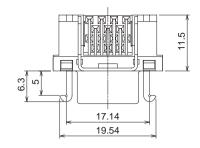


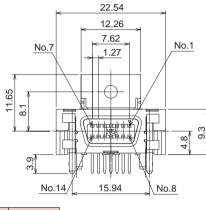


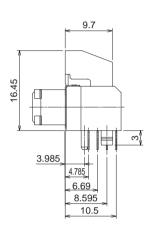
Part Number	CL No.	RoHS
DX10LM1-14SE(50)	230-5258-5-50	YES

● Miniature PCB Right-angle through hole type (Single panel screw)





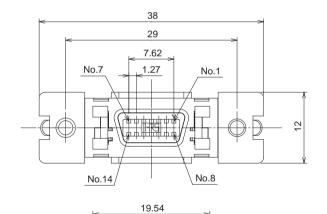




Part Number	CL No.	RoHS
DX10LM2-14SE(50)	230-5262-2-50	YES

● PCB Straight through hole type (Double panel screws)





34.4

			17.14
Part Number	CL No.	RoHS	
DX20LM-14SE(50)	230-5257-2-50	YES]
			15.94

■Plug Connectors (Cable assemblies)

D-configuration connector to D-configuration connector



Unit: cm			
RoHS	L	CL No.	Part Number
YES	150	230-5260-7-50	DX40LM-14PP-150CV(50)
IES	300	230-5268-9-50	DX40LM-14PP-300CV(50)

Wiring Table Connector A Contact No. Connector B Contact No. Pin assignment 2 2 Y-GND 3 3 Pb 4 Pb-GND 5 5 Pr 6 6 Pr-GND Auxiliary line 1 8 8 Line 1 9 9 Line 2 Auxiliary line 2 10 10 11 11 Line 3 Switch GND 12 12 13 13 Auxiliary line 3 14 14 Switch

			_}(12.5 MAX.	
Contact No. 7	Contact No. 14	Connector A		Connector B	Contact No. 7	Contact No. 14
Contact No. 1	Contact No. 8	42		42	Contact No. 1	Contact No. 8

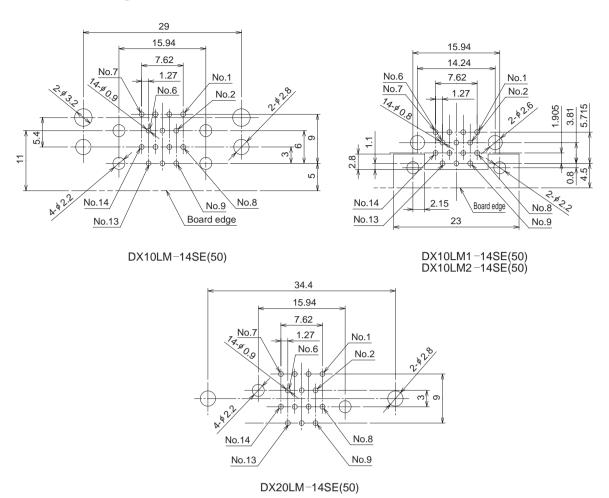


			Unit: cm
Part Number	CL No.	L	RoHS
DX40LM-14P-150CV(50)	230-5261-0-50	150	YES
DX40LM-14P-300CV(50)	230-5269-1-50	300	IES

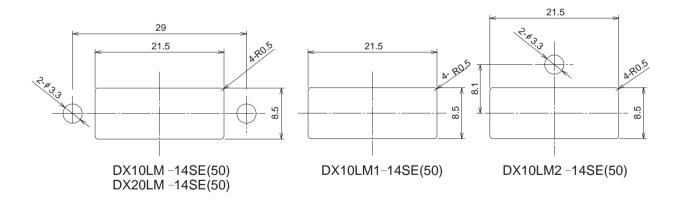
	Wiring Table					
	Connector A Contact No.	Connector B: Green Contact No.		Connector D: Red Contact No.	Pin assignment	
	1	1	_	_	Y	
	2	2	_	_	Y-GND	
	3	_	3	_	Pb	
	4	_	4	_	Pb-GND	
	5	_	_	5	Pr	
	6	_		6	Pr-GND	
	7	_	_	_	_	
	8	_		_	_	
	9	_	_	_	_	
	10	_		_	_	
Shorted	11	_	_	_	_	
Shorted	12	_		_	_	
	13			_		
	14			_	_	

	12.5MAX.		
Contact No. 7	Contact No. 14	Connector A	Connector B: Green Contact No. 2 Connector C: Blue
	26.2MAX.		Contact No. 4 Contact No. 3 Contact No. 6 Contact No. 5
	Contact No. 8		Connector D: Red

♦Board Mounting Pattern



♦ Panel Cutout (Panel thickness 3 mm Max.)



Note: Use screw M3 x 10 (class 1 or 2).

Panel screw fastening torque:

For assemblies DX10LM-14SE(50), DX20LM-14SE(50) and DX10LM1-14SE: 0.5 to 0.7 N·m.

For assembly DX10LM2-14SE(50): 0.6 to 0.8 N·m.

Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

Hirose Electric:

DX10M-14S(50) DX10M-20S(50) DX10M-26S(50) DX10M-36S(50) DX10M-50S(50) DX10M-68S(50) DX10BM-68S(50) DX10BM-80S(50) DX10BM-100S(50) DX20M-14S(50) DX20M-20S(50) DX20M-26S(50) DX20M-36S(50) DX20M-50S(50) DX20M-68S(50) DX20BM-68S(50) DX20BM-80S(50) DX20BM-100S(50) DX20BM-100S(57) DX30AM-14P DX30AM-20P DX30AM-26P DX30AM-36P DX30AM-50P DX30AM-68P DX30AM-80P DX30AM-100P DX40M-26P DX40M-36P DX40M-50P DX40M-100P DX30M-14-CV DX30M-14-CV(10) DX30M-14-CV(11) DX30M-20-CV DX30M-20-CV(10) DX30M-20-CV(11) DX30M-20-CV(13) DX30M-26-CV DX30M-26-CV(10) DX30M-26-CV(11) DX30M-36-CV DX30M-36-CV(10) DX30M-36-CV(13) DX30M-50-CV DX30M-50-CV(10) DX30M-50-CV(13) DX30M-68-CV DX30M-68-CV(04) DX30M-68-CV(10) DX30M-68-CV(13) DX30M-68-CV2 DX30M-80-CV2 DX30M-100-CV2 DX33AM-68S(50) DX30AM-110P DX10M-20SE(50) DX10M-26SE(50) DX10M-36SE(50) DX10M-50SE(50) DX10M-68SE(50) DX10BM-100SE(50) DX33AM-68S-LNA(50) DX30M-110-CV1 DX30M-68-CV3 DX20CM-68S(51) DX10AM-110SE1(50) DX10AM-100SE1(50) DX33AM-50S(50) DX30M-100-CV1 DX33AM-36S(50) DX10M-14SE(50) DXM-26S-DC2(50) DX10GM-20SE(50) DX10GM-68SE(50) DX10AM-110SE2(50) DX30M-50-CV4 DX30AM-20PA DX30AM-36PA DX10GM-20S(50) DX10GM-68S(50) DX10G1M-14SE(50) DX10G1M-26SE(50) DX10G1M-36SE(50) DX10G1M-36SE(51) DX10G1M-50SE(50) DX10G1M-14S(50) DX10G1M-26S(50) DX10G1M-36S(50) DX10G1M-36S(51) DX10G1M-50S(50) DX10HM-20SE(50) DX30M-100-CV1A DX10LM-14SE(50) DX20LM-14SE(50) DX10LM1-14SE(50) DX10LM2-14SE(50) DX40LM-14P-300CV(50)