# **D-configuration Connectors for Digital Broadcasting Equipment**

# 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

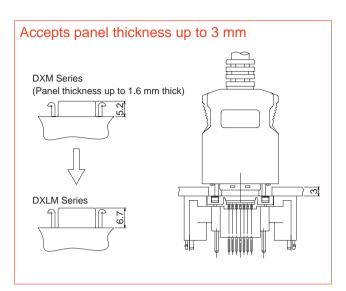
Solid metal grounding posts are soldered to the board. This creates extremely strong retention to the board, allowing the assembly to retain reliable connections, even when large forces are applied when miss-mating or pulling.

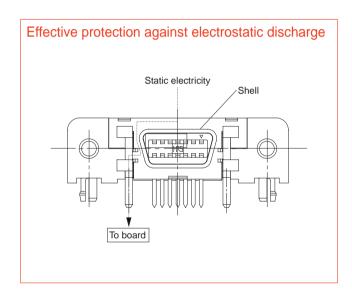
#### 5. RC-5237, EIAJ Standard

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

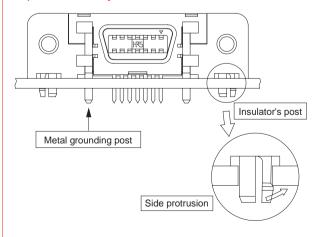
## Applications

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





#### Superior stability and retention to the board





## Product Specifications

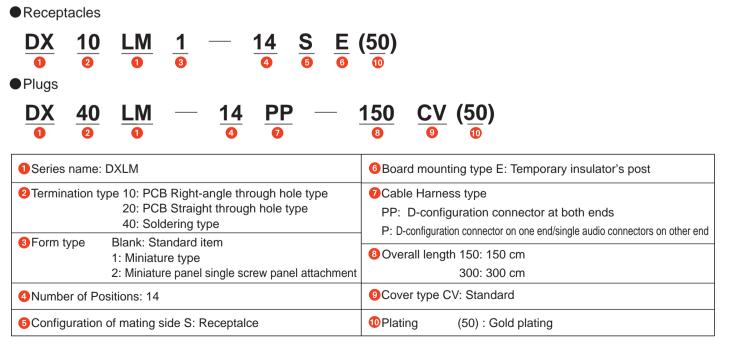
Rating	Current rating	1 A DC	<ul> <li>Operating temperature range</li> </ul>	-25°C to +70°C	
	Voltage rating	250 V AC			

Item	Specification	Conditions
1. 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/s <sup>2</sup> , 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        >        >         2 to 3         ->         2 to 3         ->
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	РВТ	Color: Black	UL94V-0
Shell	Stainless steel		
Cover	Non-Halogen	Color: Gray	—
Cable outer insulation	Non-Halogen	Color: Gray	

## Ordering Information



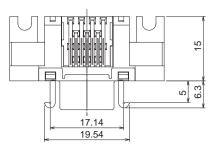
## Receptacles

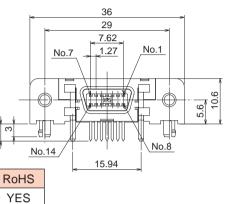
PCB Right-angle through hole type

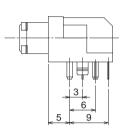


Part Number

DX10LM-14SE(50)







## Miniature PCB Right-angle through hole type

CL No.

230-5256-0-50

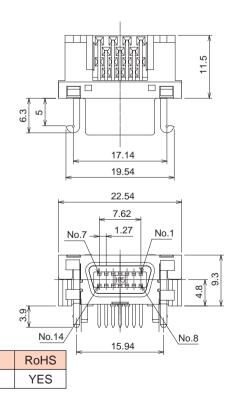
CL No.

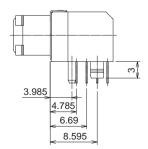
230-5258-5-50



Part Number

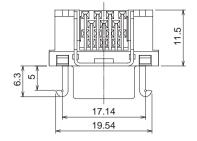
DX10LM1-14SE(50)

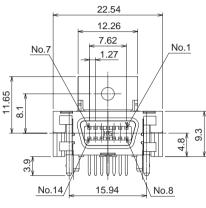


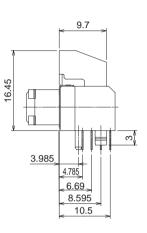


#### Miniature PCB Right-angle through hole type (Single panel screw)









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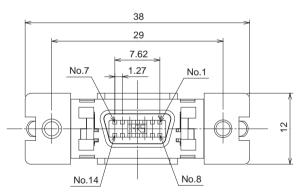
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Part Number	CL No.	RoHS
DX10LM2-14SE(50)	230-5262-2-50	YES

## PCB Straight through hole type (Double panel screws)





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Part Number	CL No.	RoHS	
DX20LM-14SE(50)	230-5257-2-50	YES	
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# Plug Connectors (Cable assemblies)

• D-configuration connector to D-configuration connector

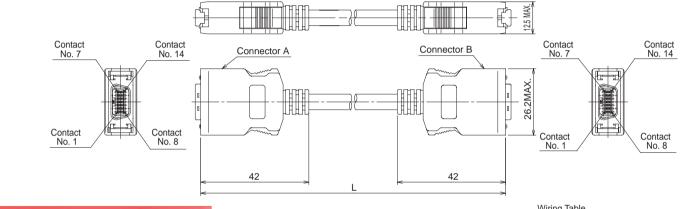


	Wiring Table				
	Connector A Contact No.	Connector B Contact No.	Pin assignment		
	1	1	Y		
	2	2	Y-GND		
	3	3	Pb		
	4	4	Pb-GND		
	5	5	Pr		
	6	6	Pr-GND		
	7	7	Auxiliary line 1		
	8	8	Line 1		
	9	9	Line 2		
Shorted	10	10	Auxiliary line 2		
	11	11	Line 3		
	12	12	Switch GND		
	13	13	Auxiliary line 3		
	14	14	Switch		

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

230-5261-0-50

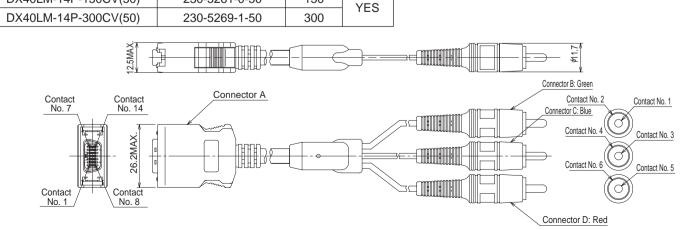




Part Number

DX40LM-14P-150CV(50)

	vviring lable					
	Connector A Contact No.	Connector B: Green Contact No.			Pin assignmen	
	1	1	—	—	Y	
	2	2	—	—	Y-GND	
	3	—	3	—	Pb	
	4		4		Pb-GND	
	5	—	—	5	Pr	
	6		—	6	Pr-GND	
	7	—	—	—	_	
	8				_	
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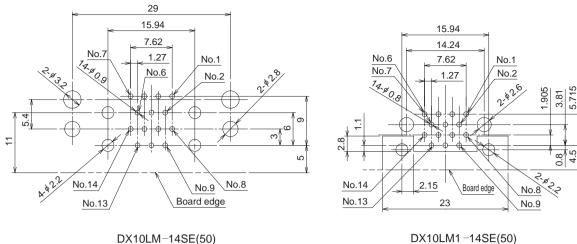
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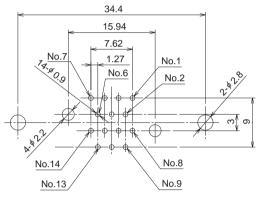
Unit: cm

RoHS

# Board Mounting Pattern



DX10LM1-14SE(50) DX10LM2-14SE(50)



DX20LM-14SE(50)

## Panel Cutout (Panel thickness 3 mm Max.)

