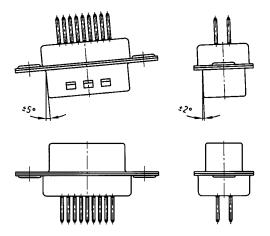
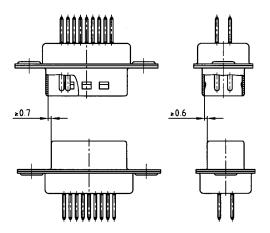
### MATING CONDITIONS

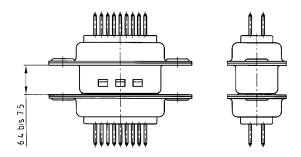
Float mount tolerance guide



Rigid mount tolerance guide

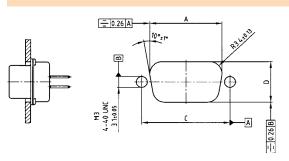


Rigid mount vertical to tolerance guide



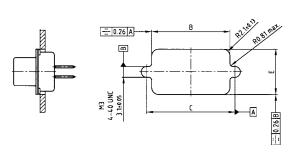
PANEL CUT-OUT\_

#### Rear panel mounting

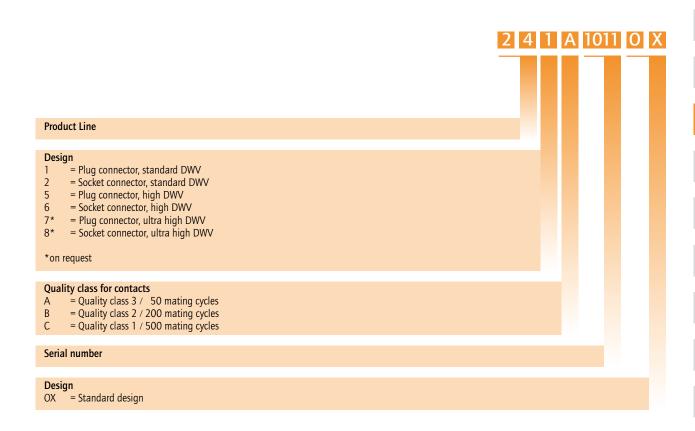


Shell	size	<b>A</b> ± 0,13	<b>B</b> ± 0,13	<b>C</b> ± 0,13	<b>D</b> ± 0,13	<b>E</b> ± 0,13
9	15	20.50	22.20	25.00	11.40	13.00
15	26	28.80	30.50	33.30	11.40	13.00
25	44	42.50	44.30	47.04	11.40	13.00
37	62	59.10	60.70	63.50	11.40	13.00
50	78	56.30	58.30	61.10	14.10	15.80

#### Front panel mounting



#### PART NUMBER CREATOR



#### Filter connectors for higher DWV

Increasing requirements, with respect to higher DWV for filter connectors, have induced us to carry out advanced development in this direction. CONEC is capable of delivering filter connectors with DWV of 1500 VDC.

The various DWV ratings are as follows:

- 1 Standard DWV ......300/424 VDC
- 2 High DWV......707 VDC
- 3 Ultra high DWV......1000/1500 VDC (on request)

Furthermore, the filter connector can be designed for ultra high DWV of up to 2500 VDC at 10/700 pulse voltage. Filter connectors so designed fulfill the standards established according to CE requirements, i.e. 1414 VDC. For example, capacity ratings range from 180 pF to 1300 pF for standard series.

For special capacitiance values consult factury.

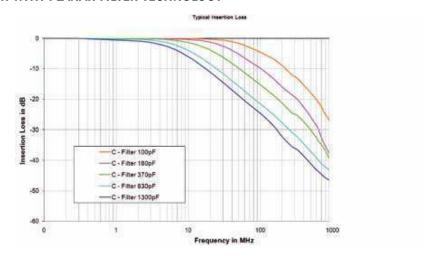
## TECHNICAL DATA

Materials	Filter D-SUB Standard 9, 15, 25, 37 and 50 position		Filter D-SUB High Density 15, 25, 44, 62 and 78 position			
Insulator	Polyester GF UL94 V-0					
Contacts	CU alloy					
Contact plating	Gold plated over nickel, solder area tin plated					
Shell	Steel tin plated / brass tin plated					
	Steel an placed / Stass an placed					
Mechanical and electrical characteristics						
Dielectric with standing voltage	<ul><li>High DWV 707 Y</li><li>Ultra high DWV 1500 Y</li></ul>	VDC (for □-Filter)	• Standard	300 VDC		
Working voltage	• High DWV 100	VDC* VDC* VDC* coordination (refe	• Standard	100 VDC* EC 664-1)		
Contact resistance	Max. 10 m $\Omega$ prior to stressing, $\Delta$ R max. 10 m $\Omega$ after stressing per DIN 41652, Part 2					
Insulation resistance	≥ 1GΩ					
Current rating	7.5 A (UL) / 5 A (CSA,VDI	Ε)	3 A (UL,VDE) /	2.5 A (CSA)		
Voltage surge 10/700μs		0 V 0 V	Standard 3	300 V		
Mating and unmating forces	9 pos. ≤ 30 N 15 pos. ≤ 50 N 25 pos. ≤ 83 N 37 pos. ≤ 123 N 50 pos. ≤ 167 N		15 pos. ≤ 50 26 pos. ≤ 83 44 pos. ≤ 110 62 pos. ≤ 170	N N		
Temperature working range	-25°C to +105°C		-25°C to +85°C			
Humidity	40°C / 85% relative humidity/RH					
Capacitor values For other capacitance values please contact the factory.	180 pF ± 20% tolerance 370 pF ± 20% tolerance 830 pF ± 20% tolerance 1300 pF ± 20% tolerance other capacitor values on request		180 pF ± 20% tolerance 370 pF ± 20% tolerance 830 pF ± 20% tolerance			
Quality class	A = Quality class 3 = 50 mating cycles B = Quality class 2 = 200 mating cycles C = Quality class 1 = 500 mating cycles					

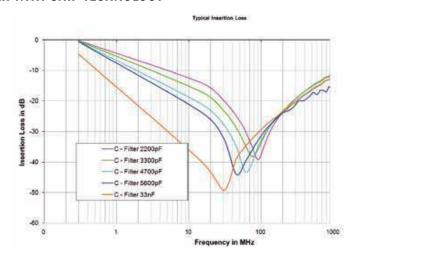
Technical alterations are subject to change without notice.

### **INSERTION LOSS**

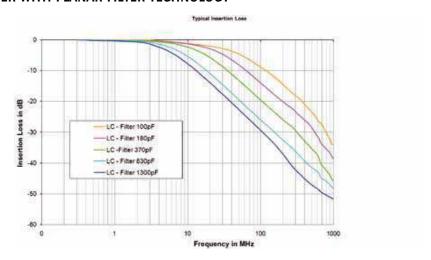
#### C-FILTER WITH PLANAR FILTER TECHNOLOGY



#### C-FILTER WITH CHIP TECHNOLOGY

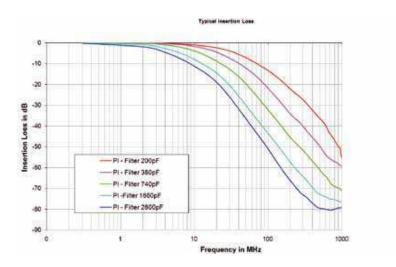


#### LC-FILTER WITH PLANAR FILTER TECHNOLOGY



### **INSERTION LOSS**

#### $\pi$ -Filter with planar filter technology



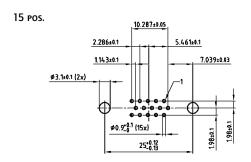
## **SOLDER PROFILE**

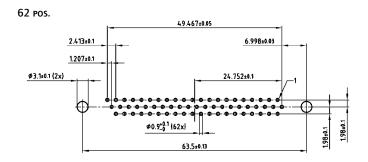
Connector Time	Preheating		Solder terminal dipping parameters		
Connector Type	max. Temperature	Duration	max. Solder bath Temperature	max. Terminal Immersion Time	
Filter D-SUB	100°C	30s	260°C	5s	
Combo D-SUB Filter	120°C	120s	260°C	5s	
Filter D-SUB Water Resistant	100°C	30s	240°C	5s	
Combo D-SUB Water Resistant	120°C	120s	240°C	5s	
D-SUB Water Resistant	120°C	120s	240°C	5s	
D-SUB Solid Body Type Water Resistant	150°C	180s	265°C	8s	
RJ45 Mod. Jack Filtered	150°C	180s	265°C	8s	
Filter Plates	150°C	180s	265°C	8s	

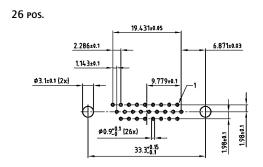
Recommended wave-solder parameters for CONEC connectors.

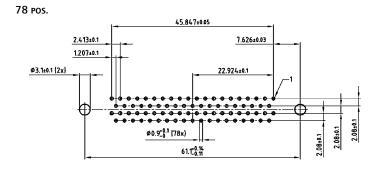
# PCB LAYOUT, D-SUB HIGH DENSITY

Solder pin, straight - Socket connector

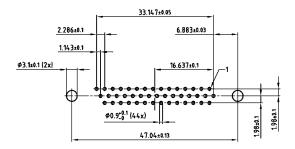








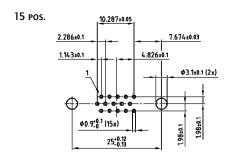
44 POS.

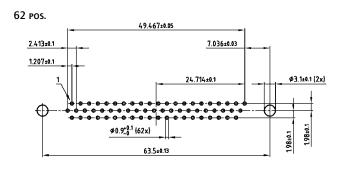


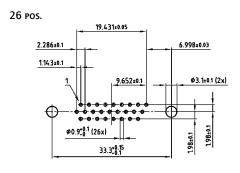
PCB layout Kat1iT9A (View: component side)

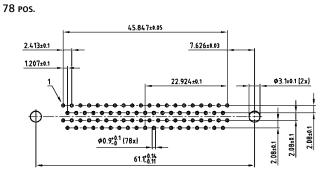
# PCB LAYOUT, D-SUB HIGH DENSITY

Solder pin, straight – Plug connector

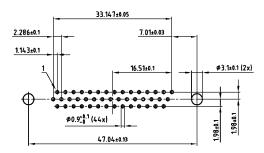








44 POS.



PCB layout KatliUOA (View: component side)