

D*_J-SUB



Applications

Space, military, aeronautical

Standards

based on :

- MIL-C 24308
- NFC 93425/HE 501
- BS 9523 - N-001



Description

D*_J subminiature filter connectors are designed for aeronautical, military and other environmental applications. A non-magnetic version for space applications is also available.

These filter connectors are directly based on the standard specifications : MIL-C 24308, NFC 93425 (HE 501) and BS 9523 - N-001. They are intermateable and interchangeable as to the mounting with standard connectors of the same series.

For the high reliability range approved by the European Space Agency, please, report to the corresponding catalogue.

Characteristics

Mechanical

- D*_J connectors are fitted with tubular filters :
- Shells : copper alloy or steel, tin lead plated
 - Insulators : self-extinguishing thermoset (UL-94-VO)
 - Contacts : machined copper alloy, gold plated, 1.27 micron min gold over 2 microns min nickel on contact area
Contact retention force in insulator : 40N min

Environmental

- Temperature -55°C 125°C
MIL-STD 1344, method 1003, condition A - NFC 20714
- Humidity 10 cycles 24 h - MIL-STD 1344, method 1002, type II except step 7 b - NFC 20703
- Salt spray 48 h - MIL-STD 1344, method 1001, condition B
NFC 20711
- Durability 500 cycles - mating/unmating
- Vibration 20 g - MIL-STD 1344, method 2005, condition IV NFC 20706
- Shock 50 g - 11 ms - MIL-STD 1344, method 2004, condition E
NFC 20727

Electrical and filter types

Filter designation	B	M	T	H	
Filter type	c filter	π filter			
Max. voltage rating	100Vdc	200Vdc-120Vac rms 50 Hz or 400Hz			
Max. current rating	5A				
Insulation resistance, 25°C, 2mn electric. time	> 5000 MΩ (under 100 Vdc)				
DWV, sea level, 25°C	300Vdc	500Vdc			
Contact resistance	7,5 mΩ Max				
Capacitance at 1KHz : 0.1Vrms at 25°C	50 000 pF min	4 000 pF to 12 000 pF	2 300 pF to 5 000 pF	500 pF to 1 300 pF	
Attenuation per MIL-STD 220 at 25°C (with no applied voltage or current, in 50 Ω system)	frequency (MHz)	minimum attenuation (dB)			
	0.3	5			
	1	15			
	3	24	5	3	
	10	33	13	9	2
	30	42	28	20	7
	100	48	50	41	20
300	50	55	55	38	
1000	50	55	55	50	

Ordering information

basic series	D				B	J	25	P	300	H	-***	NM
shell size	E - 9 cts A - 15 cts	B - 25 cts C - 37 cts	D - 50 cts									
contact arrangement	- 09-15-25-37-50											
contact type	P - pin		S - socket									
termination	without indication - solder bucket					300 - straight spill, ∅ 0.63 mm						
filter type	B - capacitive filters M-T-H - π filters											
special modifiers	- partially loaded filter connector (with grounded or non filtered contact) - connector with different types of filters (in this case the preceding letter does not appear) - non standard filters											
Specification	- copper alloy tin-lead plated NM - non magnetic gold plated shell (1.27 micron) NMA - non magnetic tin lead plated shell											