

These miniature circular filter connectors are designed to combine the functions of a standard electrical connector and a feed-thru filter into one compact package. They are designed to meet the applicable portions of military specification MIL-C-38999 Series I, II, III and IV. These connectors feature arrangements that will accommodate up to 128 contacts.

**Applications:**

- Avionics
- Communication
- Computer
- Telemetry Systems



 For more information: [www.itcannon.com/cat023](http://www.itcannon.com/cat023)

**Product Features**

- Series I - TKJL.
- Series II - TKJ.
- Series III - TKJA.
- Series IV - TKJB.
- Total EMI protection.
- Small packaging.
- Multiple capacitance values.
- Multiple terminations.
- High quality performance.
- MIL-SPEC intermatibility.

**Performance Specifications: See next page for additional data**

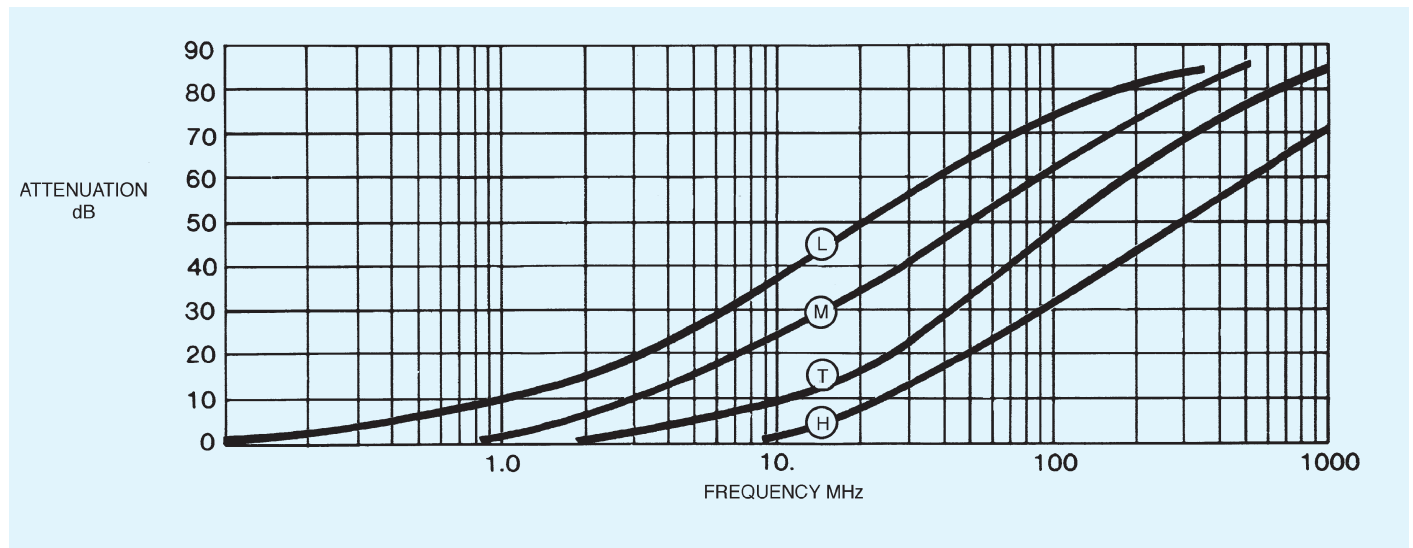
Contact Termination	Crimp Piggyback; PC Tail; Solder Cup; Wrap Post
Number of Circuits	Up to 128
Operating Temperature	-55°C to 125°C (-67°F to 257°F)
Polarization	Key/Keyway
Shell Style	0 – Receptacle, Wall Mount (Front Panel) 2 – Receptacle, Box Mount (Front Panel) 3 – Receptacle, Wall Mount (Back Panel) 5 – Receptacle, Box Mount (Back Panel) 7 – Receptacle, Jam Nut Mount

**Materials and Finishes**

Description	Material	Finish/Treatment
Shell/Jam Nut (Finish "B")	Aluminum Alloy	Olive Drab Chromate over Nickel
Shell/Jam Nut (Finish "N")	Aluminum Alloy	Nickel
Insulator	High Grade Plastic/Epoxy	—
Contact	Copper Alloy	Gold over Nickel
Grommet and Seal	Silicone Base Elastomer	—
Grounding Spring	Beryllium Copper	Gold

 Please contact your local Cannon representative: [www.itcannon.com/support/ContactUs](http://www.itcannon.com/support/ContactUs)

TKJL/TKJ/TKJA/TKJB Filter Performance



TKJL/TKJ/TKJA/TKJB Electrical Data

Contact Size	22, 20, 16
Current Rating	5A (Size #22); 7.5 A (Size #20); 15 A (Size #16)
Filter Type	Pi ( $\pi$ )
Insulation Resistance, electrification time 2minutes, 25°C (77°F), 100 V dc	5,000 M $\Omega$ min.
Operating Voltage	200 V dc or 120 V ac rms, 400 Hz

Available Filter Frequency	Low	Middle	Standard	High
Capacitance at 1 KHz, 0.1 V ac rms, 25°C (77°F)	45000 pF 32000 pF	12000 pF 8000 pF	5000 pF 3300 pF	1300 pF 850 pF
DWV (sea level) 500 $\mu$ A max. charge/discharge	300 V dc (Size #22) 500 V dc (Sizes #20, #16)		500 V dc	500 V dc
Filter Designation	L	M	T	H
Filter Performance	Frequency MHz	Attenuation dB min.	Attenuation dB min.	Attenuation dB min.
	0.1	2	—	—
	1	10	2	—
	2	16	7	2
	10	40	18	8
	100	60	55	30
	500-1000	65	60	55

Attenuation per MIL-STD-220 at 25°C (77°F) with no applied voltage or current.  
Contact Cannon for higher or mixed attenuation values and higher voltage ratings.

Contact Combinations/Options

To meet specific circuit and application requirements, TKJL/TKJ/TKJA/TKJB connectors can be specified with any combination of different filters plus unfiltered/feed-thru and grounding contacts.

Combination layouts cannot be ordered with standard nomenclature; contact your local Cannon representative for specific part numbers.