Filter; ARINC Series 600 Standard, Rack & Panel TBKA

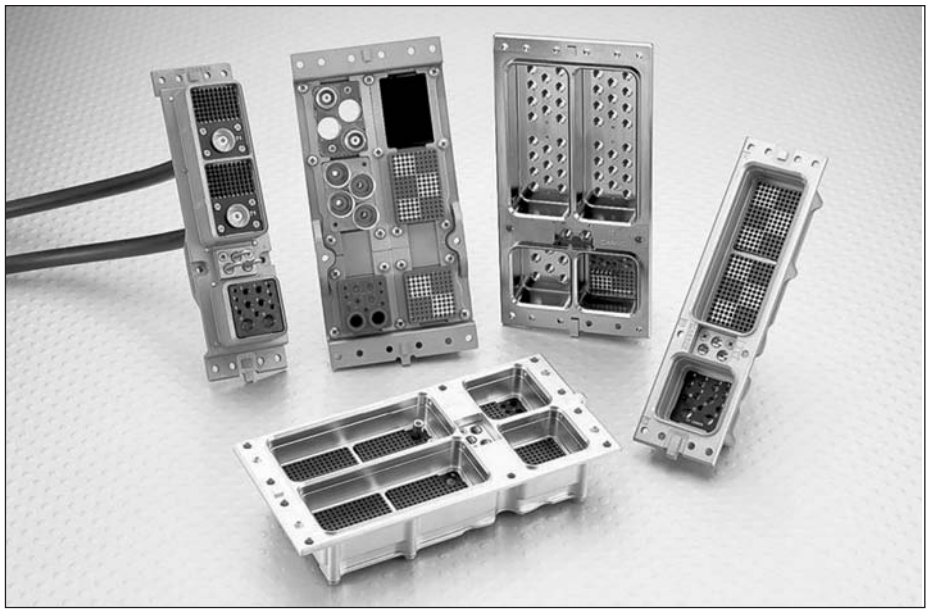
TBKA connectors represent a major milestone in presenting a rack and panel connector for support of the air transportation market.

Several important design concerns have been addressed and solved in this series. High mating forces of pluggable modules in a rack have been reduced by approximately two-thirds. Filter adaptations include either single module (gang) or complete connector filtering. The standard version features non-removable contacts with PC tail termination. Other versions include crimp piggyback rear release contacts and/or removable front sockets.

In the ARINC Series 600 Standard connector series, size 22 contacts are the only size that utilize the POS-A-LINE connector construction feature. The hooded socket extends from its receptacle insulator in the POS-A-LINE design.

Applications:

- TCAS Commercial Avionics
- Wind Shear



For more information: www.ittcannon.com/cat020

Product Features

- Low insertion force contacts.
- Non-environmental versions.
- Polarizing posts that are removable from the mating face.
- Field replaceable filter modules with size 22 contacts.
- Crimp piggyback and Pi contacts for filter module.
- Uses standard DPX crimp, insertion/extraction tooling.
- Waveguide connections available.

Performance Specifications: See next page for additional data

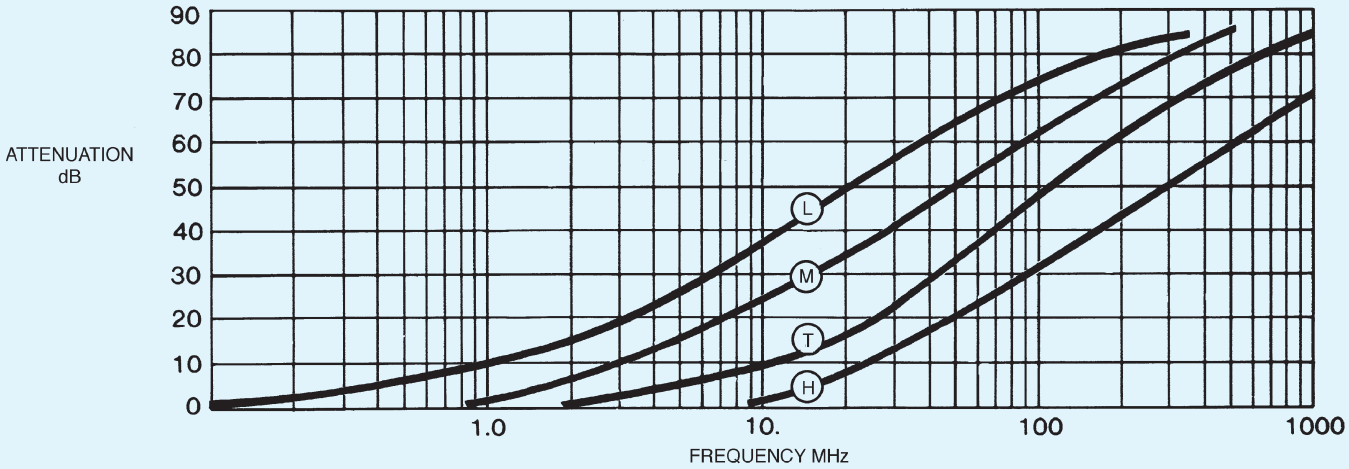
Contact Termination	PC Board Tails; Crimp Sockets (Piggyback)
Number of Circuits	Up to 800 (size 22)
Operating Temperature	–55°C to 125°C (–67°F to 257°F)
Polarization	Polarizing Posts or Keys

Materials and Finishes

Description	Material	Finish
Shell	Aluminum Alloy per QQ-A-591/A380	Electroless Nickel
Insulator	High Grade Plastic/Epoxy	—
Contact	Copper Alloy per QQ-C-533	Gold over Nickel
Ground Spring	Copper Alloy	Gold

Please contact your local Cannon representative: www.ittcannon.com/support/ContactUs

TBKA Filter Performance



TBKA Electrical Data

Contact Size	22, 20, 16
Current Rating	5 A (Size #22); 7.5 A (Size #20); 15 A (Size #16)
Filter Type	Pi (π)
Insulation Resistance, electrification time 2 minutes, 25°C (77°F), 100 V dc	5,000 MΩ 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)		32000 pF 45000 pF	8000 pF 12000 pF	3300 pF 5000 pF	850 pF 1300 pF
DWV (sea level) 500 μA max. charge/discharge		300 V dc (Size #22) 500 V dc (Sizes #20, #16)	500 V dc	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.	Attenuation dB min.
	0.1	2	—	—	—
	1	10	2	—	—
	2	16	7	2	—
	10	35	18	8	2
	100	60	55	45	30
	500-1000	65	60	55	45

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.