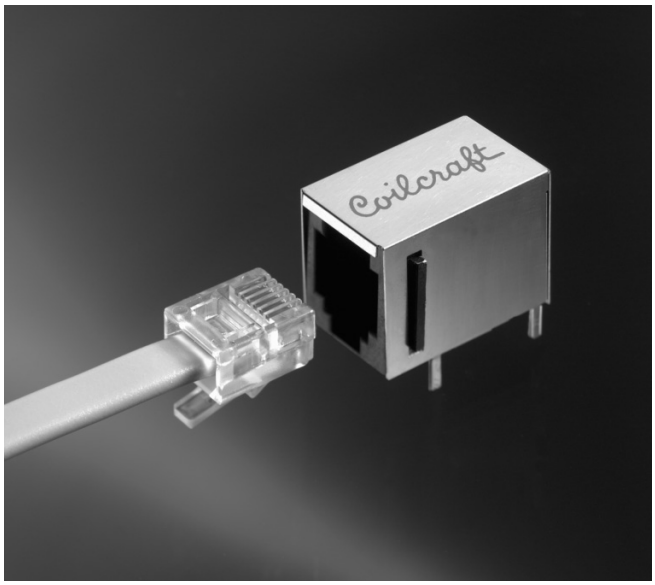
# Filtered Modular Jacks – PCRJ Series




This product is not RoHS-compliant. Contact Coilcraft for current status or possible alternatives.

These filtered jacks virtually eliminate conducted and radiated noise in voice or data lines. And they suppress noise at the best possible spot for incoming and outgoing signals.

Available in RJ-45, -14 and -11 versions, they use a single high impedance magnetic structure to filter multiple signal lines simultaneously, providing common mode noise reduction without affecting the desired signal — something ferrite beads or sleeves can't achieve.

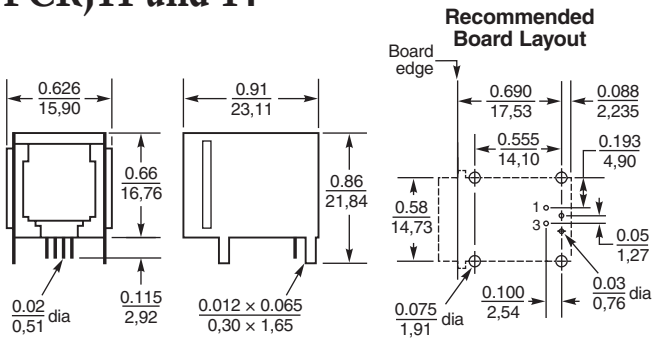
The -1 series jacks reduce common mode noise by 45 dB at 100 MHz while passing signals up to 48 MHz without attenuation; the -2 versions provide 20 dB attenuation at 100 MHz and pass differential mode signals up to 140 MHz.

The jacks come standard with a solderable shield and match standard industry footprints. Custom models are available to meet specific response characteristics.

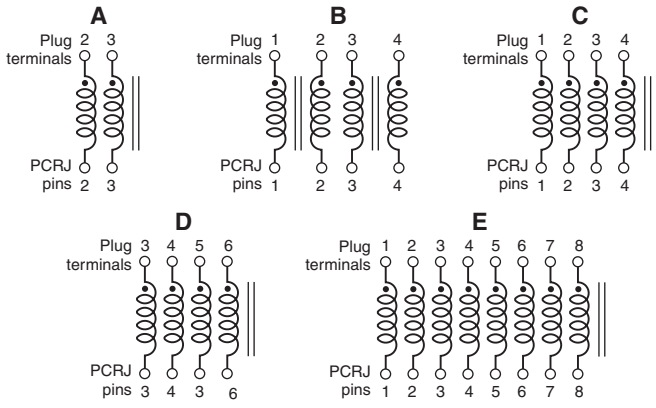
| Part number | Number of positions | Number of contacts loaded | Current max (mA) | Schematic |
|---|---|---|---|---|
| PCRJ11-1 | 6 | 2 | 500 | A |
| PCRJ14-1 | 6 | 4 | 500 | B |
| PCRJ11-2 | 6 | 2 | 500 | A |
| PCRJ14-2 | 6 | 4 | 500 | C |
| PCRJ454-2 | 8 | 4 | 500 | D |
| PCRJ458-1 | 8 | 8 | 500 | E |
| PCRJ458-2 | 8 | 8 | 500 | E |

1. Operating temperature range -40°C to +85°C
2. Electrical specifications at 25°C

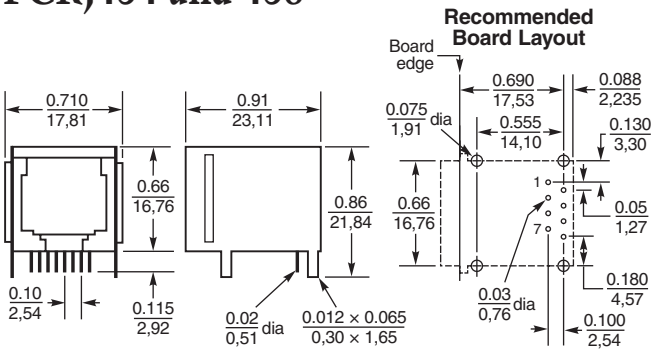
## PCRJ11 and 14




## Schematics




## PCRJ454 and 458




Coilcraft
www.coilcraft.com

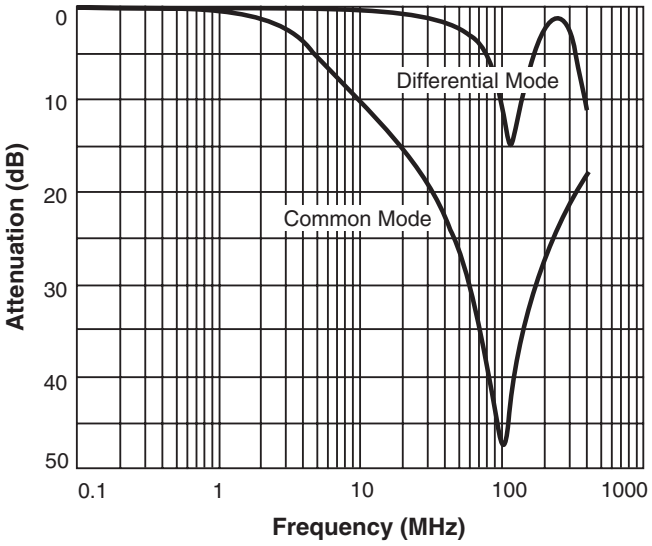
**US** +1-847-639-6400 sales@coilcraft.com
**UK** +44-1236-730595 sales@coilcraft-europe.com
**Taiwan** +886-2-2264 3646 sales@coilcraft.com.tw
**China** +86-21-6218 8074 sales@coilcraft.com.cn
**Singapore** + 65-6484 8412 sales@coilcraft.com.sg

Document 189-1 Revised 04/07/09

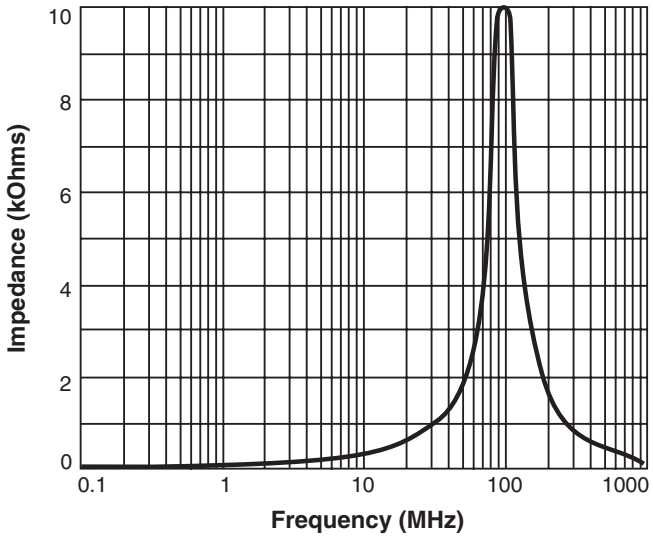
© Coilcraft Inc. 2013
This product may not be used in medical or high risk applications without prior Coilcraft approval.
Specification subject to change without notice.
Please check web site for latest information.

# -1 Series Performance

## Typical Attenuation*

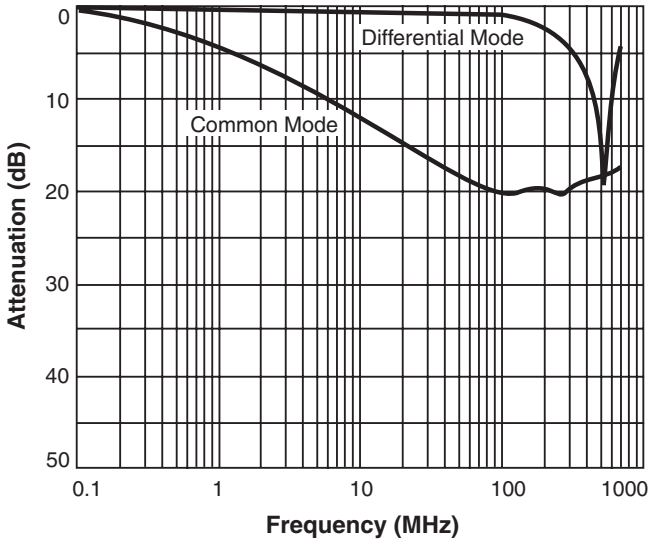



## Typical Impedance vs Frequency

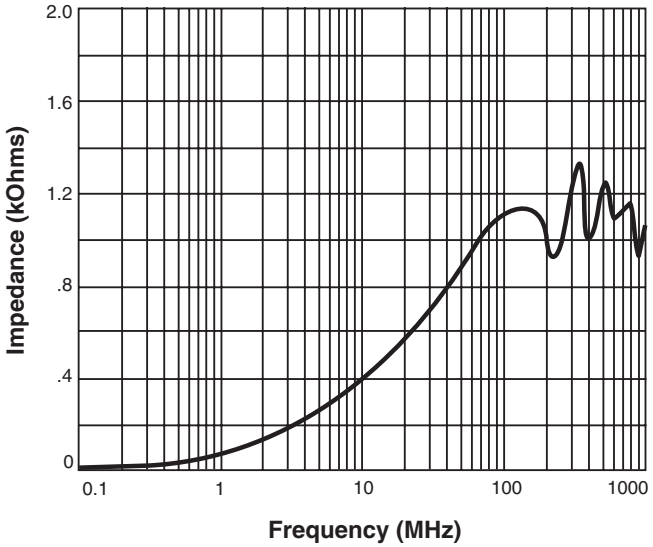



# -2 Series Performance

## Typical Attenuation*




## Typical Impedance vs Frequency




*measured on Agilent/HP8753D network analyzer. Ref: 50 Ohms.

Coilcraft®
www.coilcraft.com

**US** +1-847-639-6400 sales@coilcraft.com
**UK** +44-1236-730595 sales@coilcraft-europe.com
**Taiwan** +886-2-2264 3646 sales@coilcraft.com.tw
**China** +86-21-6218 8074 sales@coilcraft.com.cn
**Singapore** + 65-6484 8412 sales@coilcraft.com.sg



© Coilcraft Inc. 2013
This product may not be used in medical or high risk applications without prior Coilcraft approval.
Specification subject to change without notice.
Please check web site for latest information.