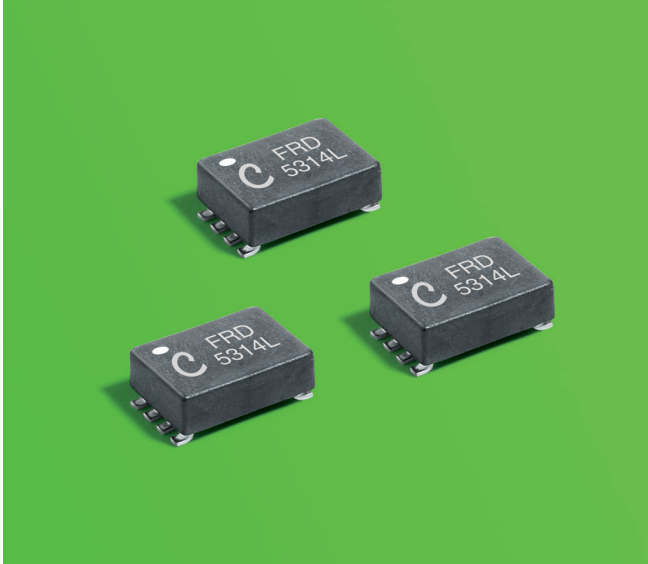


**NEW!**

# Data Line Filters for Critical Applications



- Available in 4, 3 and 2-line versions
- Exceptional common mode noise attenuation from 15 MHz to 300 MHz; passes signal line data below 300 MHz with minimal attenuation
- DC current capacity of 500 or 100 mA.
- Excellent electrical isolation (300 Vrms)

**Core material** Ferrite

**Terminations** RoHS compliant tin-silver-copper over tin over nickel over phos bronze. Other terminations available at additional cost.

**Weight** 183 – 201 mg

**Ambient temperature** –40°C to +85°C

**Storage temperature** Component: –55°C to +85°C.  
Tape and reel packaging: –40°C to +80°

**Resistance to soldering heat** Max three 40 second reflows at +260°C, parts cooled to room temperature between cycles

**Moisture Sensitivity Level (MSL)** 1 (unlimited floor life at <30°C / 85% relative humidity)

**Packaging** 500/7" reel Plastic tape: 16 mm wide, 0.35 mm thick, 8 mm pocket spacing, 4.4 mm pocket depth

Part number <sup>1</sup>	Lines	Current max <sup>2</sup> (mA)	Inductance min <sup>3</sup> (µH)	DCR max (mOhms)
ST515FRD5314LZ	4	100	5	250
ST515FRD5354LZ	4	500	5	200
ST515FRD5313LZ	3	100	5	250
ST515FRD5353LZ	3	500	5	200
ST515FRD5312LZ	2	100	5	250
ST515FRD5352LZ	2	500	5	200

1. When ordering, please specify **termination code**:

**ST515FRD5352LZ**

**Termination: L** = RoHS compliant tin-silver-copper over tin over nickel over phos bronze.  
Special order: **S** = non-RoHS tin-lead (63/37).

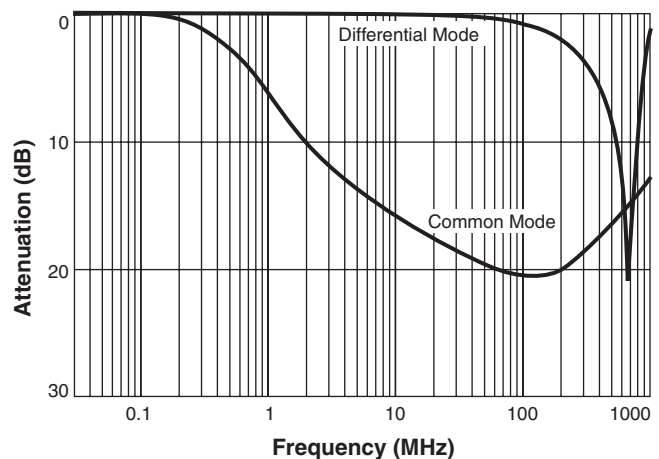
2. Current rating is for each line.

3. Inductance is per winding, tested at 1 MHz.

4. Electrical specifications at 25°C.

Refer to Doc 362 "Soldering Surface Mount Components" before soldering.

## Typical Response\*



\* Measured on HP 8753D network analyzer. Ref: 50 Ohms.

**Coilcraft CPS**  
CRITICAL PRODUCTS & SERVICES

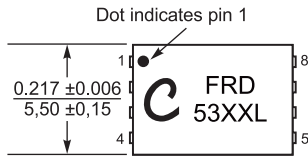
1102 Silver Lake Road  
Cary, IL 60013  
Phone 800-981-0363

Fax 847-639-1508  
Email [cps@coilcraft.com](mailto:cps@coilcraft.com)  
[www.coilcraft-cps.com](http://www.coilcraft-cps.com)

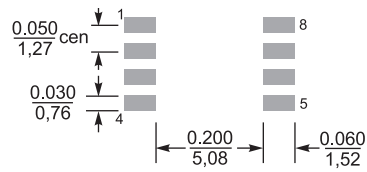
Document ST925-1 04/16/20

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

# Data Line Filters for Critical Applications



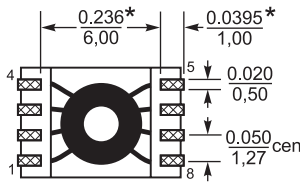
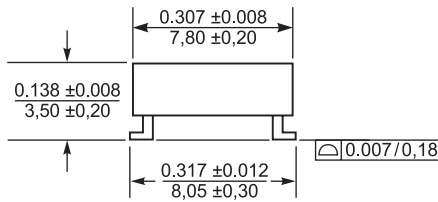
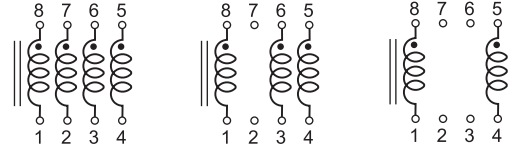
## Suggested Land Pattern



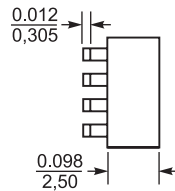
ST515FRD5314/54

ST515FRD5313/53

ST515FRD5312/52



\* Dimensions are typical prior to applying solder



Dimensions are in  $\frac{\text{inches}}{\text{mm}}$