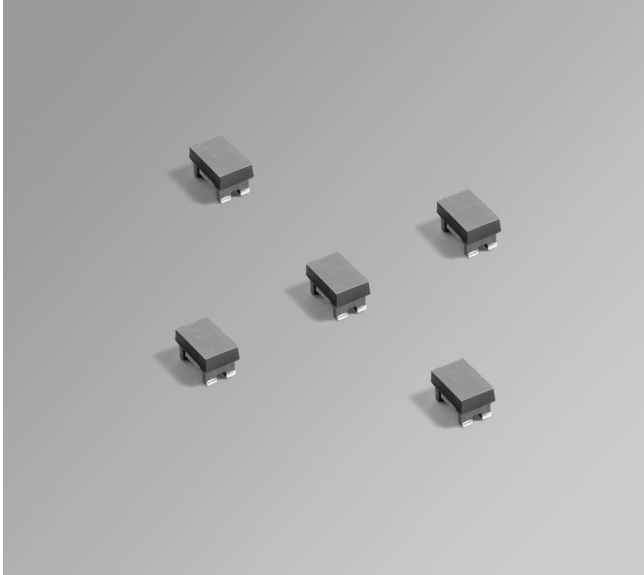


**NEW!**

# Wideband Transformers – PFD2015



- Miniature surface mount component, only 2.2 × 1.45 mm footprint and 1.5 mm tall
- Typical applications are as impedance or isolation transformer
- Can be used for balanced to unbalanced (balun) conversion
- 1/4 Watt input RF power rating

**Core material** Ferrite**Environmental** RoHS compliant, halogen free**Weight** 13 – 23 mg**Terminations** RoHS compliant silver-palladium-platinum-glass frit.**Ambient temperature** –40°C to +125°C**Storage temperature** Component: –40°C to +125°C.

Tape and reel packaging: –40°C to +80°C

**Winding to winding isolation** 250 Vrms, one minute**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)**Failures in Time (FIT) / Mean Time Between Failures (MTBF)**

38 per billion hours / 26,315,789 hours, calculated per Telcordia SR-332

**Packaging** 2000/7" reel; 7500/13" reel Plastic tape: 8 mm wide, 0.23 mm thick, 4 mm pocket spacing, 1.63 mm pocket depth**PCB washing** Tested to MIL-STD-202 Method 215 plus an additional aqueous wash. See [Doc787\\_PCBt\\_Washing.pdf](#).

Part number <sup>1</sup>	Bandwidth (MHz)	Insertion loss max (dB)	L min <sup>2</sup> (µH)	DCR max <sup>2</sup> (Ohms)
PFD2015-102ME_	4.6 – 750	0.5	0.80	0.165
PFD2015-122ME_	4.0 – 730	0.4	0.96	0.175
PFD2015-182ME_	2.2 – 490	0.4	1.44	0.294
PFD2015-272ME_	1.5 – 410	0.4	2.16	0.477
PFD2015-332ME_	1.2 – 340	0.5	2.64	0.670
PFD2015-472ME_	0.8 – 230	0.4	3.76	1.00
PFD2015-682ME_	0.6 – 200	0.5	5.44	1.75
PFD2015-822ME_	0.5 – 174	0.5	6.56	2.50
PFD2015-103ME_	0.4 – 130	0.7	8.00	3.40

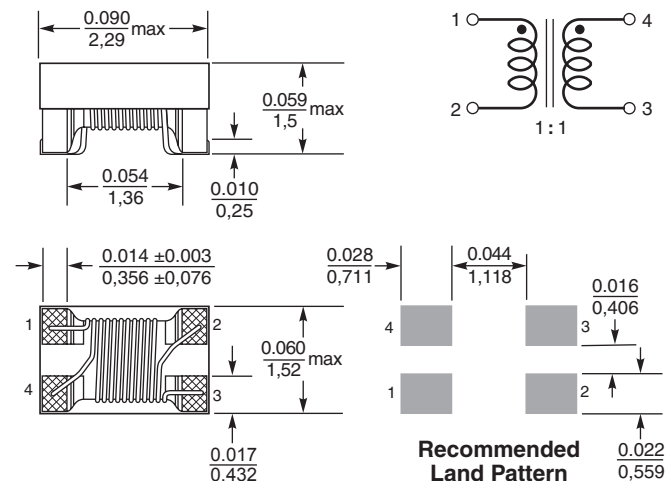
1. When ordering, please specify **packaging** code:**PFD2015-103MEC****Packaging:** **C** = 7" machine-ready reel. EIA-481 embossed plastic tape (2000 parts per full reel).**B** = Less than full reel. In tape, but not machine ready. To have a leader and trailer added (\$25 charge), use code letter D instead.**D** = 13" machine-ready reel. EIA-481 embossed plastic tape. Factory order only, not stocked (7500 parts per full reel).

2. Inductance is for each winding, measured at 100 kHz, 0.1 Vrms, 0 Adc on an Agilent/HP 4284A LCR meter or equivalent.

3. DCR is for each winding.

4. Electrical specifications at 25°C.

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

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

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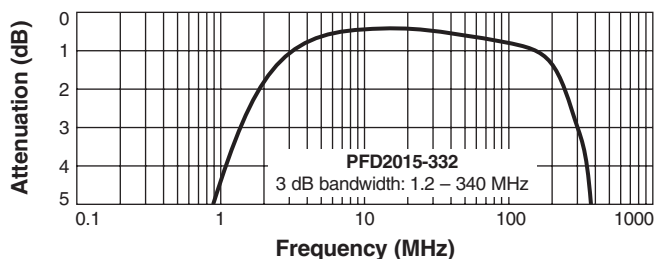
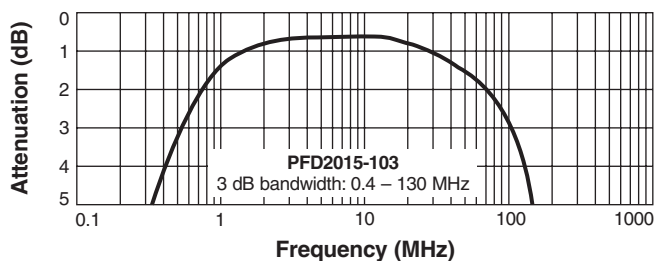
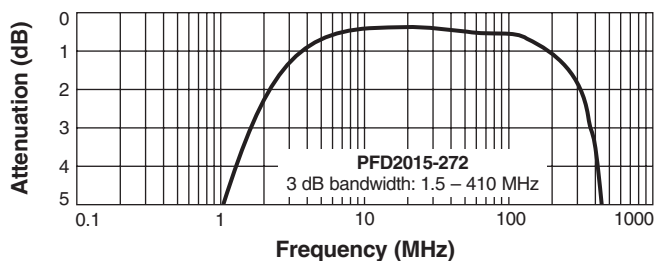
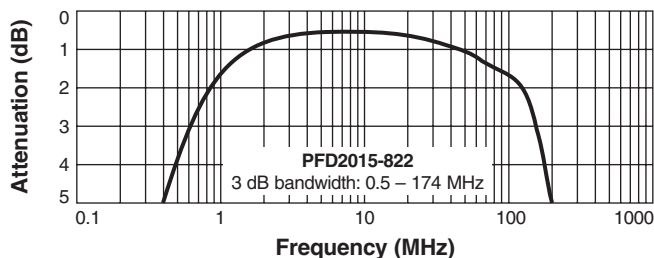
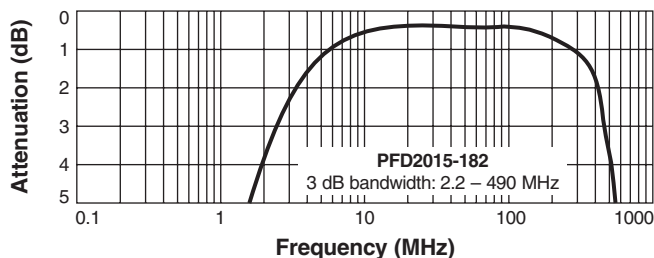
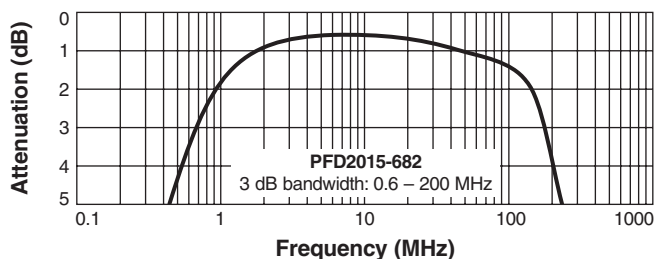
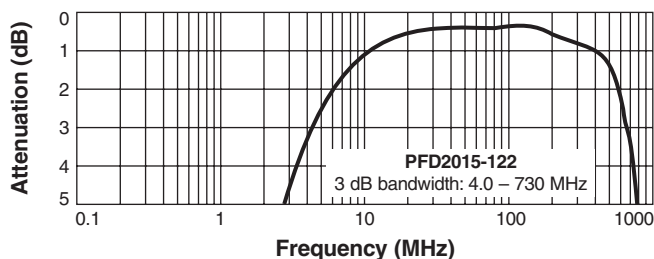
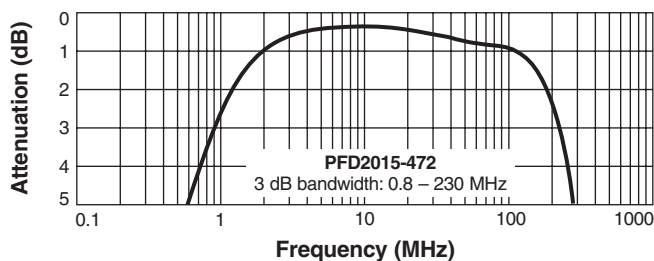
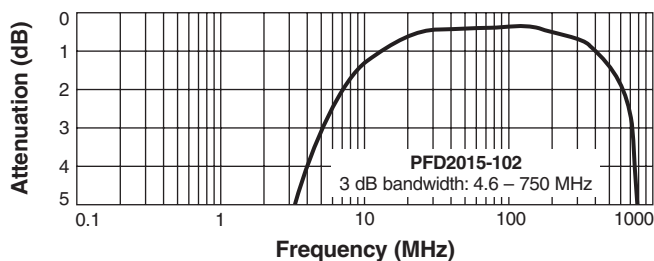
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# PFD2015 Wideband Transformers

## Typical Wideband Response Curves



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