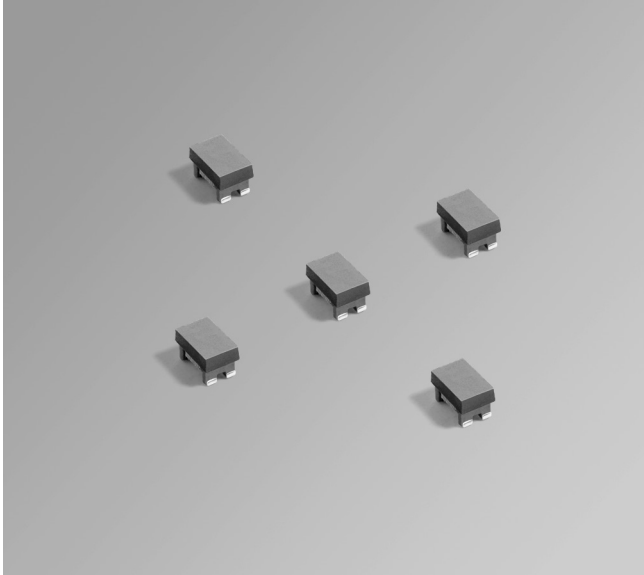


Wideband Transformers – PFD2015



- 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 ¹	Bandwidth (MHz)	Insertion loss max (dB)	L min ² (µH)	DCR max ² (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 **termination** and **packaging** codes:

PFD2015-103MEC

Termination: E= RoHS compliant silver-palladium-platinum-glass frit.

Special order: R = RoHS compliant matte tin over nickel over silver-platinum-glass frit.

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.

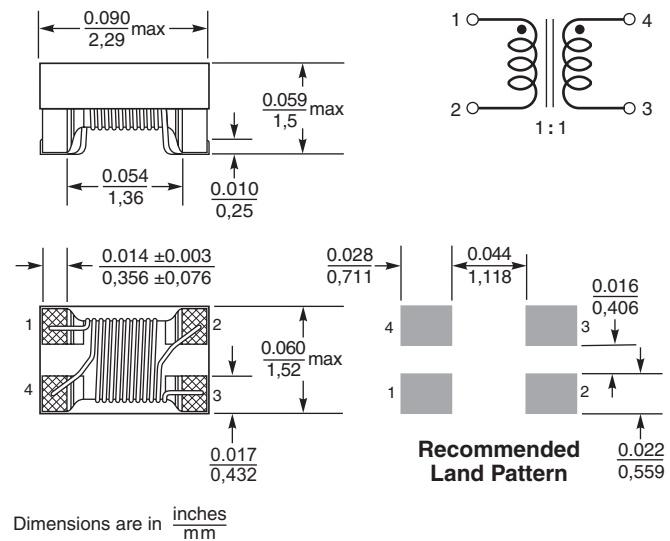
D = 13" machine-ready reel. EIA-481 embossed plastic tape. Factory order only, not stocked (7500 parts per full reel).

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.

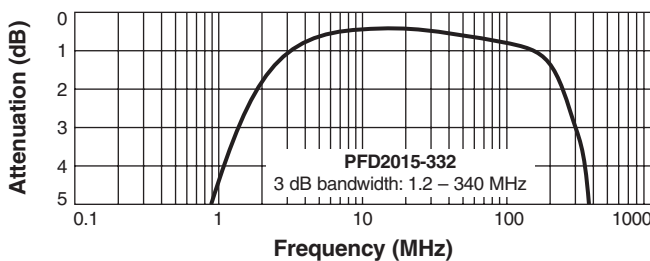
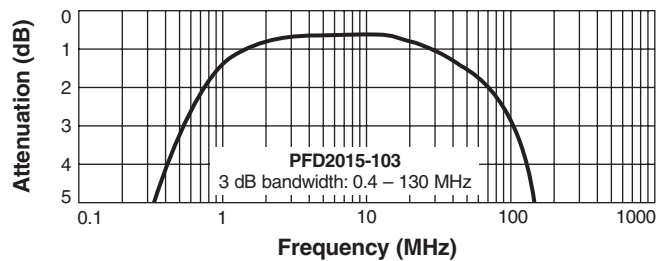
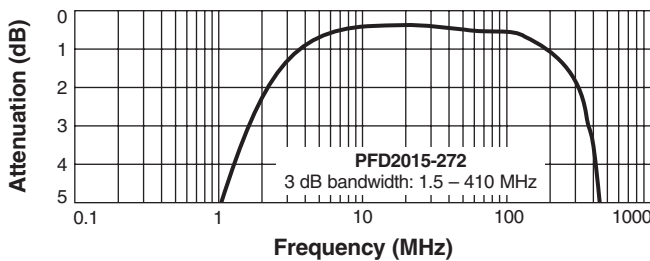
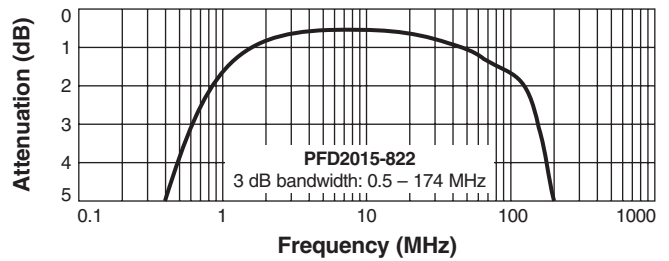
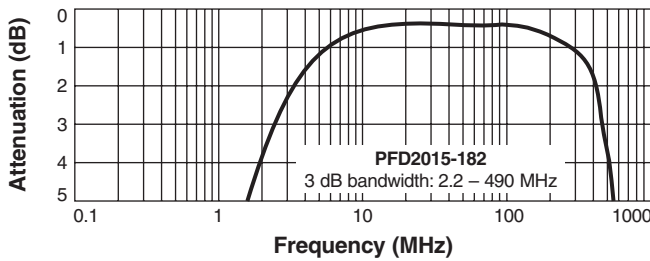
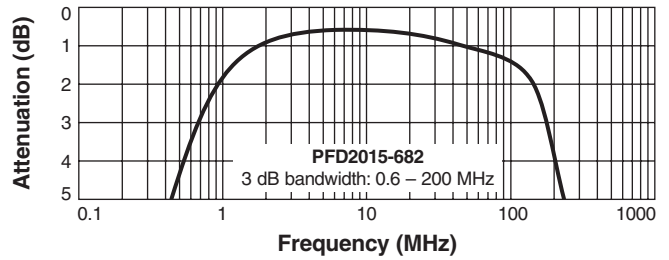
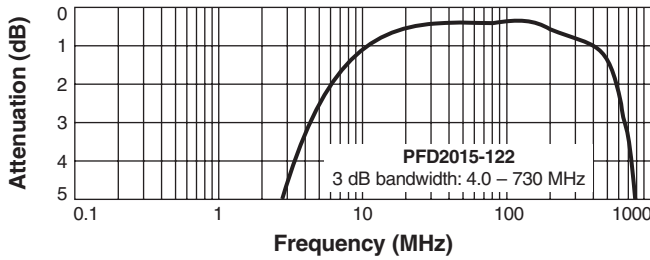
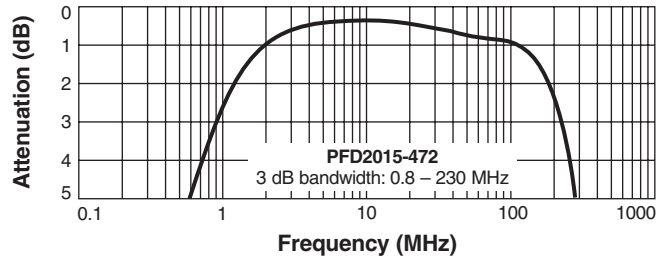
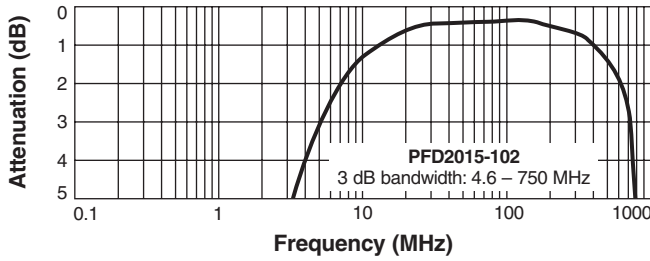


Dimensions are in $\frac{\text{inches}}{\text{mm}}$



PFD2015 Wideband Transformers

Typical Wideband Response Curves



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