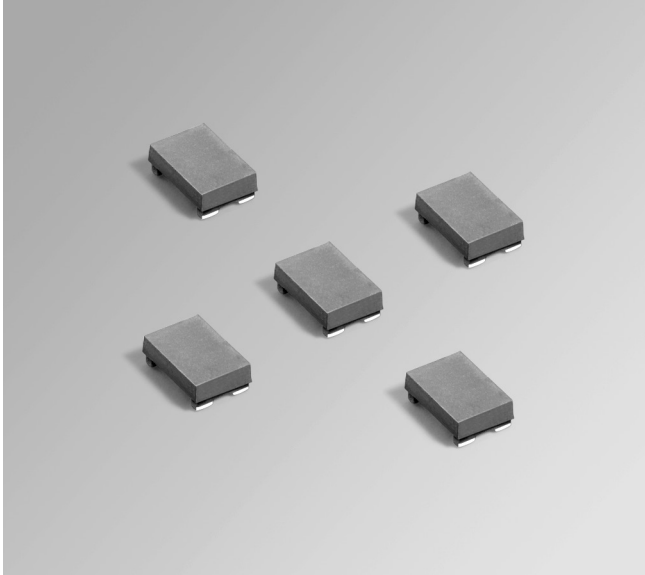


Wideband Transformers – PFD3215



- Typical applications are as impedance or isolation transformer
- Can be used for balanced to unbalanced (balun) conversion
- 1/4 Watt input RF power rating
- Low DCR values

Core material Ferrite

Environmental RoHS compliant, halogen free

Weight 18 – 28 mg

Terminations RoHS compliant silver-palladium-platinum-glass frit.

Ambient temperature –40°C to +85°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, 0.20 mm thick, 4 mm pocket spacing, 1.21 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)
PFD3215-391ME_	12.6 – 645	0.6	0.31	0.070
PFD3215-102ME_	4.0 – 500	0.4	0.80	0.123
PFD3215-182ME_	2.2 – 300	0.5	1.4	0.250
PFD3215-222ME_	2.0 – 370	0.4	1.7	0.265
PFD3215-332ME_	1.2 – 310	0.6	2.6	0.335
PFD3215-472ME_	0.9 – 250	0.5	3.7	0.442
PFD3215-682ME_	0.8 – 150	0.5	5.4	0.600
PFD3215-103ME_	0.4 – 150	0.5	8.0	1.25

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

PFD3215-103MEC

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 C instead.

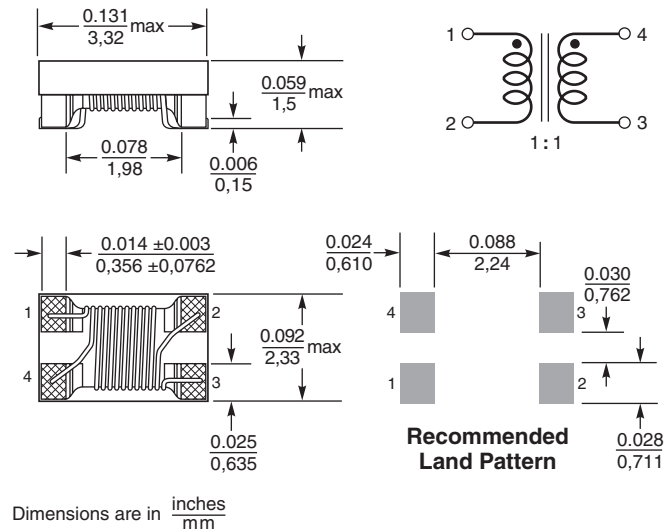
D = 13" machine-ready reel. EIA-481 embossed plastic tape. Factory order only, not stocked (7500 parts per full reel).

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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PFD3215 Wideband Transformers

Typical Wideband Response Curves

