

Power Line Communication (PLC) Transformers

Features And Benefits:

- Turns ratio supports variety of PLC chipsets
- Wideband frequency response 1.5~86MHz
- Industrial and Automotive Temperature ranges
- Designed with EN/UL/IEC62368-1 for 250V working voltage
- Designed for Qualcomm, Broadcom, MTK, Intellon & STMicro chipset
- Compliant Automotive spec AEC-Q200
- Custom designs are available

Electrical Specification @25°C:

Model No.	Turns Ratio TX:RX:PL	Inductance ^{1,2,3} (uH)	DCR (mΩ Max)			Leakage ⁴ Inductance (uH Max.)	Cw/W ⁵ (pF Max)	Hi-Pot (Vac)	AES-Q200 Qualified	Insulation Class	Package Size (WxLxH mm Max)
			TX	R	PL						
EPF11348	1:1	12.5 Typ (PL)	—	—	—	—	—	3750	No	Reinforced	8.45x11.4x8.5
EPF11387	1:1	12.5 Typ (PL)	—	—	—	—	—	3750	No	Reinforced	12.5x17.7x5.4
EPF11451	1:1:1	8.7 Min (PL)	500	500	500	—	—	3000	Yes	Reinforced	8.45x11.4x8.5
EPF11481	1:1:1	8 Min (PL)	60	60	60	—	—	3000	No	Supplementary	10.6x12.8x12.5
EPF11482	1:1:1	28 Min (PL)	100	100	100	—	—	3000	No	Supplementary	10.6x12.8x12.5
EPF11483	1:1:2	7 Min (TX)	250	250	500	—	—	3000	No	Reinforced	10.5x14.5x7.8
EPF11484	1:1	7 Min (TX)	500	500	—	—	25	4000	No	Reinforced	10.5x14.5x7.8
EPF11485	1:1:1	20 Min (PL)	65	65	65	—	—	3000	No	Supplementary	10.7x15.5x7.0
EPF11486	1:1:1	5 Min (PL)	500	500	500	0.5	—	500	No	Functional	5.65x7.8x4.0
EPF02157	1:1.5:1.5CS	10 Min (PL)	160	320	320	0.15	4.5	3750	No	Reinforced	8.8x10.1x6.6
EPF02201	0.25:1.25:1	10~35 (PL)	20	100	100	0.15	6	3750	Yes	Reinforced	8.45x11.4x8.5
EPF02202	1:1:1	11.7 Typ (PL)	20	58	30	0.125	9	1875	Yes	Functional	8.45x11.4x8.5
EPF02212	0.33:1.33:1	11.7 Typ (PL)	8	58	58	0.125	5	3750	No	Reinforced	8.45x11.4x8.5

1. Inductance measured at 2MHz, 100mV (EPF11348S, EPF11387 & EPF11451).

2. Inductance measured at 100kHz, 100mV (EPF02157, EPF02201, EPF02202 & EPF02212).

3. Inductance spec is for -40°C to 125°C and measured at 100kHz, 10mV (EPF11481 & EPF11485), 10kHz, 20mV (EPF11482) and 100kHz, 100mV (EPF11483, EPF11484 & EPF11486).

4. Leakage Inductance measured at 100kHz, 100mV, Pri to Sec. shorted.

5. Interwinding Capacitance measured at 100kHz, 100mV, Pri to Sec.

6. Operating Frequency range 2 to 70MHz (EPF11348S, EPF11387 & EPF02212), 2 to 100MHz (EPF11451), 1.5 to 30MHz (EPF11481, EPF11482 & EPF11485).

EPF11348, UT11451, EPF02201, EPF02202, EPF02212

