SMT COMMON MODE CHOKES
SLIC Series

Ruggedized

PulseR Ruggedized Solutions

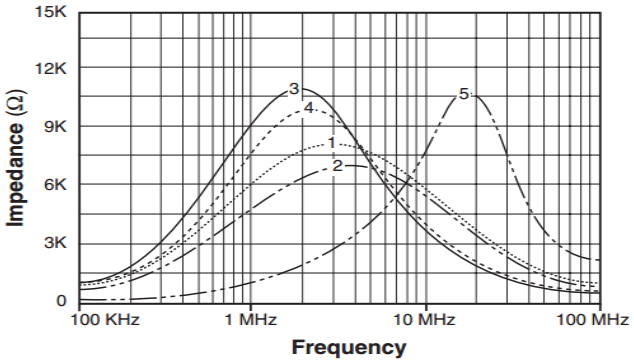
- Enhanced SLIC platform
- Military/Aerospace Applications
- Dielectric strength: 1500 VRMS
- Designed for DC/DC converters
- Storage Temperature: -55ºC to +130ºC
- Lead Finish: Sn63/Pb37
- Moisture Sensitivity Level (MSL): 1

Electrical Specifications 25°C — Operating Temperature -55°C to +130°C								
Part Number	Inductance per Winding (uH ±35%)	Irated (A)	DCR per winding (mΩ MAX)	Curve (see # below)	Package	Weight (grams)	Quantity in Tube	Quantity in Reel
PL8200	470	14.0	8	9	Big Foot	14.8	15	75
PL8201	630	11.6	10	7	Big Foot	14.3	20	75
PL8202	810	9.70	14	6	Big Foot	13.5	20	75
PL8203	534	7.20	15	8	HCCI-68	7.7	15	100
PL8204	590	5.60	21	7	LCCI-50	5.2	30	200
PL8205	768	4.70	40	6	LCCI-50	4.9	30	200
PL8206	225	3.30	60	5	LCCI-50	4.7	30	200
PL8207	1320	3.30	60	4	LCCI-50	4.6	30	200
PL8208	1470	2.80	80	3	LCCI-50	4.3	30	200
PL8209	880	1.63	110	2	Polecat	1.5	40	500
PL8210	1170	1.22	200	1	Polecat	1.4	40	500
PL8211	10040	1.4	210	10	LCCI-50	4.5	20	200
PL8212	1125	1.8	55	11	Polecat	1.55	40	500
PL8213	800	3	27	12	Polecat	2.46	40	300
PL8214	382.5	3.3	18	13	Polecat	1.71	40	200
PL8215	536	3.8	17.1	14	LCCI-37	2.52	30	200
PL8216	280	4	13.2	15	Polecat	1.6	40	500
PL8217	486	4.2	16	16	LCCI-44LP	2.99	40	300
PL8218	130*	5	6.75	17	Polecat	1.6	40	500
PL8219	96*	6	4.3	18	Polecat	1.7	40	500
PL8220	400	6	9.4	19	LCCI-44LP	3.53	40	200
PL8221	61*	7	2.9	20	Polecat	1.73	40	500
PL8222	484	8	7.7	21	LCCI-50	5.31	30	200
PL8223	1030	9	9.75	22	HCCI-80	14.63	20	75
PL8224	215	10	3.75	23	Makeni	6.26	25	150

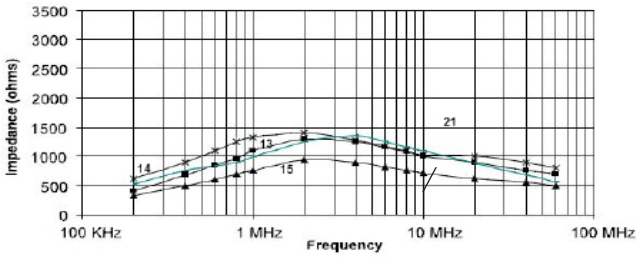
Notes:

1. The current rating (irated) is based upon the temperature rise of the component anrd represents the rms current which will cause a typical temperature rise of 55°C with 50LFM forced cooling.
2. The temperature of the component (ambient plus temperature rise) must be within the stated operating temperature range.
4. Optional Tape & Reel packaging can be ordered by adding a "T" suffix to the part number (i.e. PL8200 becomes PL8200**T**.)
5. To order RoHS compliant parts, add "NL" to the part number (i.e. PL8200 becomes PL8200**NL** and PL8200T becomes PL8200**NLT)**

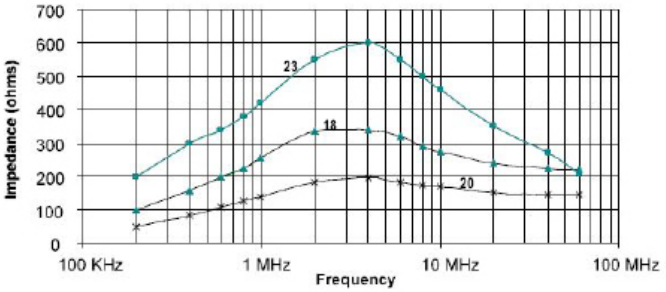
Impedance Curves



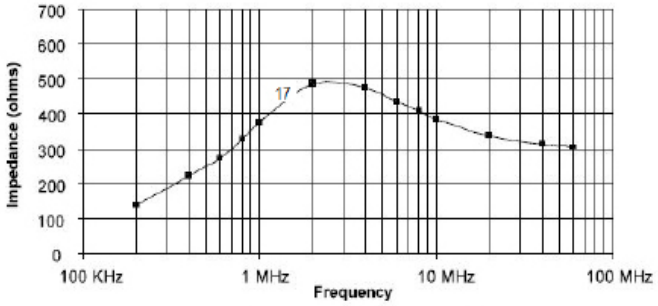
PL8206, PL8207, PL8208, PL8209, PL8210



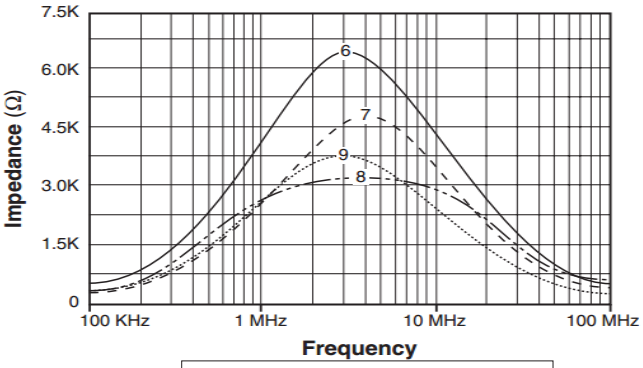
PL8214 PL8222 PL8216 PL8215



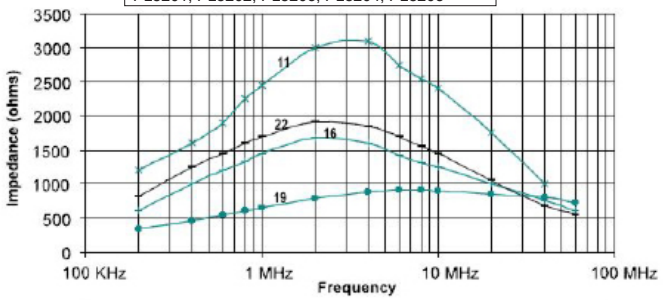
PL8224 PL8219 PL8221



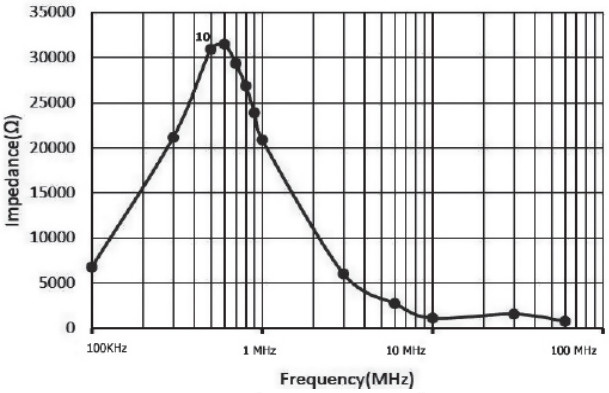
PL8218



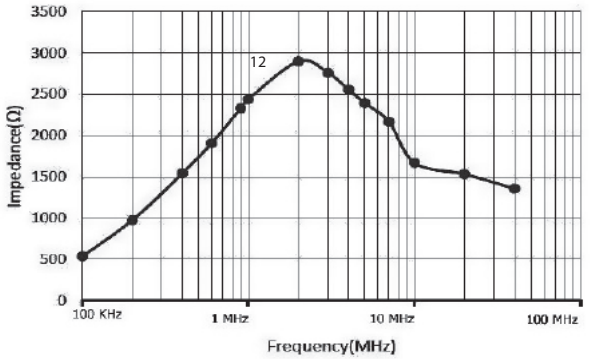
PL8201, PL8202, PL8203, PL8204, PL8205



PL8223 PL8220 PL8217 PL8212



PL8211

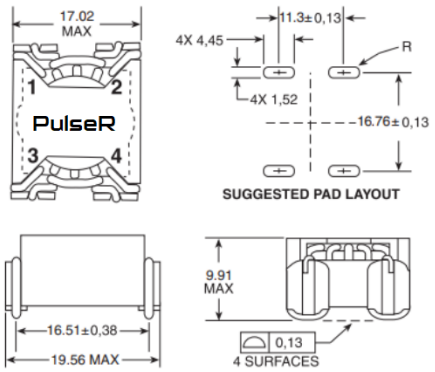


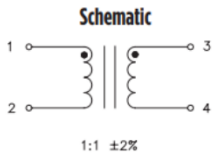
PL8213

Mechanicals

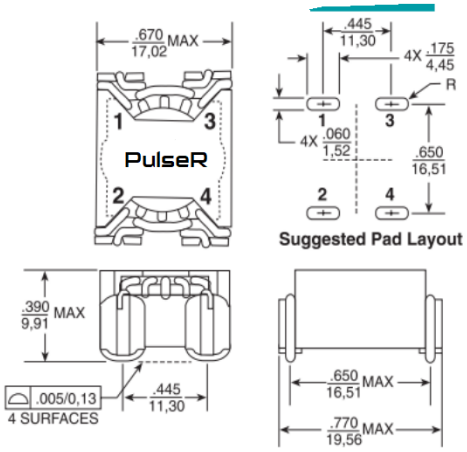
Schematics

LCCI-50, PL8222 & PL8225





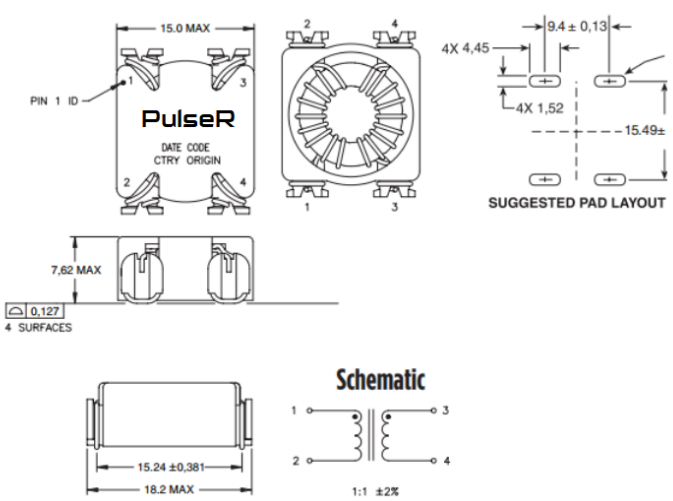
LCCI-50



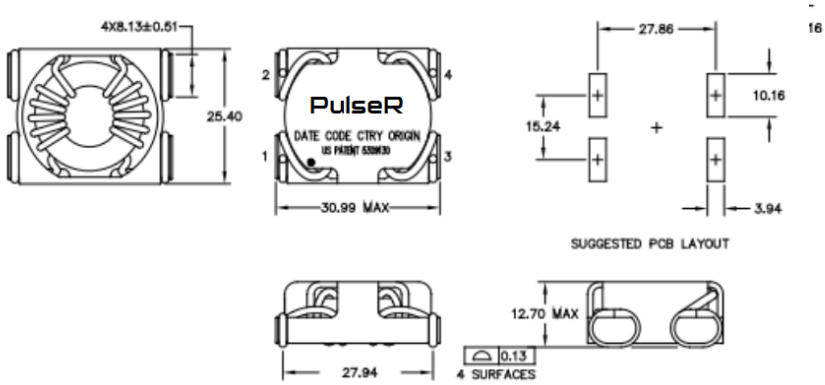
Mechanicals

Schematics

LCCI-44LP

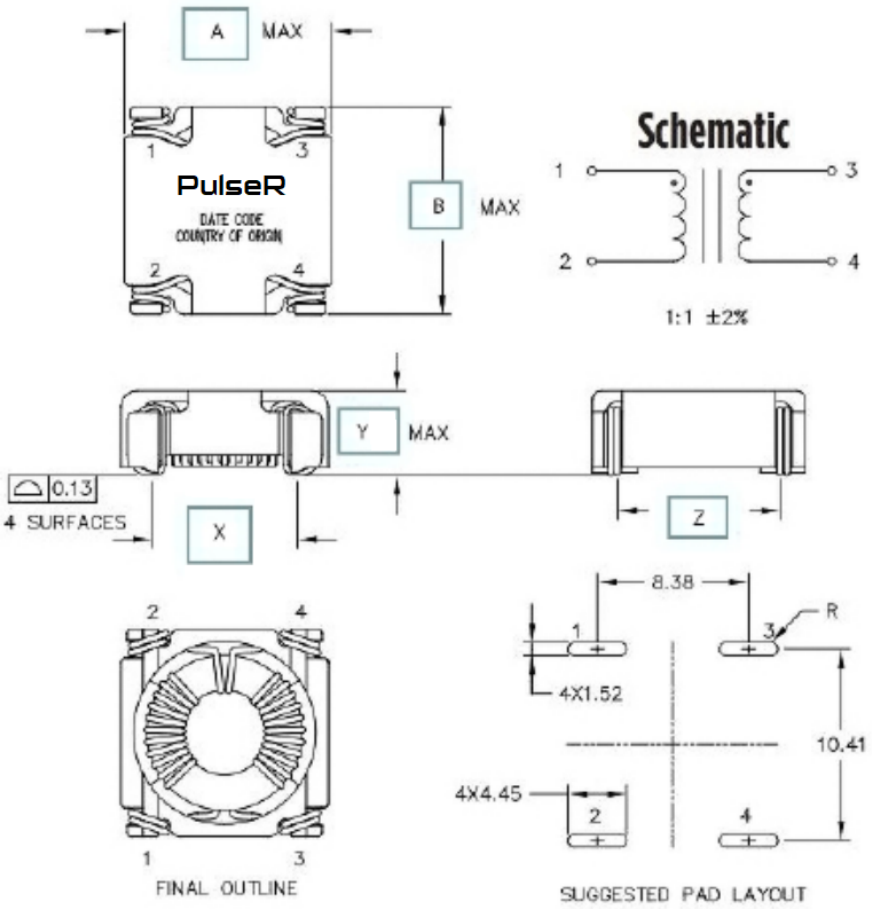


HCCI-80, PL8223



PoleCat - PL8212, PL8213, PL8214, PL8216, PL8218, PL8219, PL8221

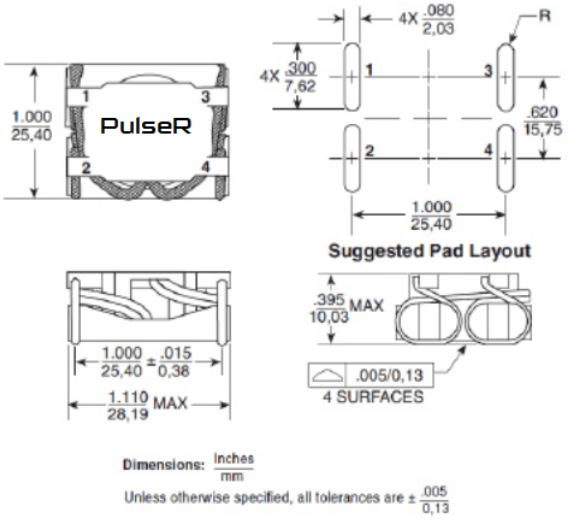
Mechanicals



PoleCat Dimensions					
Part number	A	B	X	Y	Z
PL8212	12.7	13.2	8.4	10.4	5.6
PL8213	13.0	13.0	8.4	10.4	8.6
PL8214	13.0	13.0	8.4	10.4	5.6
PL8216	13.0	13.0	8.4	10.4	5.6
PL8218	13.2	13.2	8.6	10.7	5.6
PL8219	13.2	13.2	8.6	10.7	5.6
PL8221	13.5	13.5	8.6	10.7	5.6

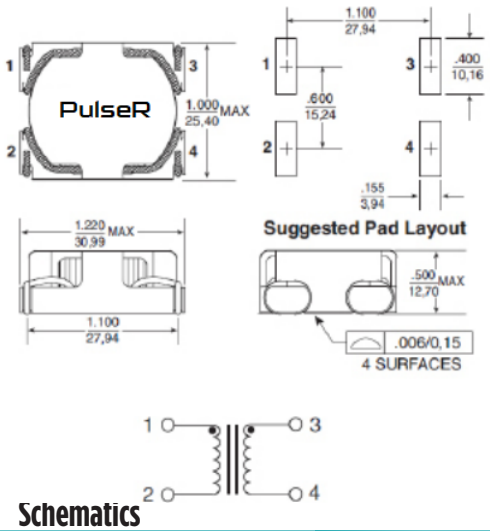
HCCI-68

Mechanicals



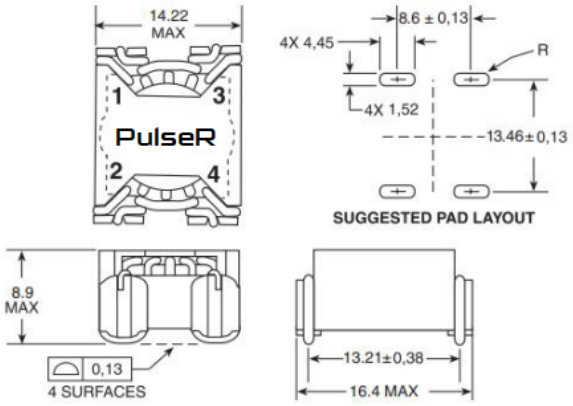
Schematics

Big Foot



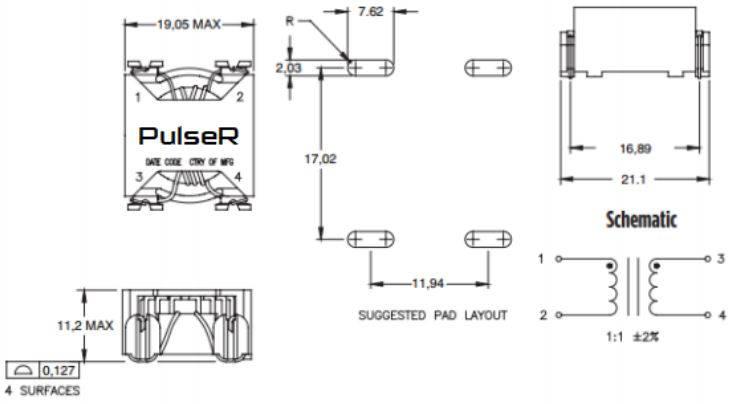
LCCI-37

Mechanicals

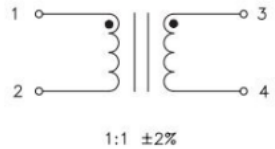


Schematics

Makeni

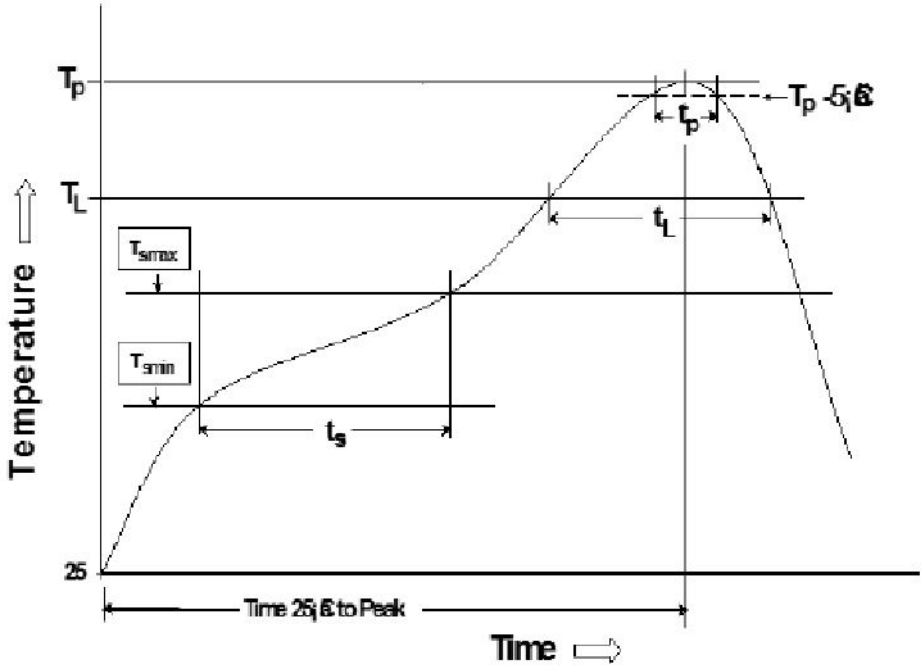


Schematic



1:1 ±2%

Transceiver Tin/Lead Recommended Reflow Profile (Based on J-STD-020D)



T_{SMIN} (°C)	T_{SMAX} (°C)	T_L (°C)	T_P (°C MAX)	t_S (s)	t_L (s)	t_P (s MAX)	Ramp-up rate (T_L to T_P)	Ramp-down rate (T_P to T_L)	Time 25°C to peak temperature (s MAX)
100	150	183	225	60-120	60-150	20	3°C/s MAX	6°C/s MAX	360

Notes:

1. **All temperatures measured on the package leads.**
2. **Maximum times of reflow cycle: 2.**

For More Information

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