BM6210HL, BM6220NL and BM6230HL





Features and Benefits:

- Wideband Frequency response 3~30MHz
- Industrial and Automotive Temperature range from -40°C to +125°C
- @ Eco-friendly Halogen Free options
- Turns ratio supports variety of PLC chipsets
- Supports IEC-62368 for off-line 16Vdc and 500Vdc supply lines
- Automotive designs meet AEC-Q200 and covered by ISO/IATF16949 and PPAP on request

Electrical Specifications @ 25°C - Operating Temperature -40°C to +125°C													
Part ^{1,6,7} Number BM6210HL ⁹	Turns Ratio +/- 2% (N1:N2:N3)	© OCL ^{2,3} (uH Min)	\otimes^3 DCR (m Ω Max)		Insertion Loss ⁴	Leakage⁵ Inductance	Hi-Pot (Vac)	AEC-Q200 Qualified	Insulation ⁶ Class	Working Voltage	Clearance (mm Min)	Package Size	
			N1	N2	N3	(dB Max)	(uH Max)	(vdt)	Qualifieu	Class	voilage	(111111 11111)	(mm)
BM6210HL ⁹	1:1:1	5	500	500	500	-	0.5	500	Yes	Functional	500Vdc	-	6.9 x 12.0 x 5.0
BM6220NL	1:1	12	500	500	500	-1.0	0.25	500	Yes	Functional	16V	-	9.5 x 12.0 x 10.0
BM6230HL ⁹	1:1:1	28	250	250	250	2.25	-	3000	Yes	Reinforced	500Vdc	-	14.6 x 16.15 x 6.0

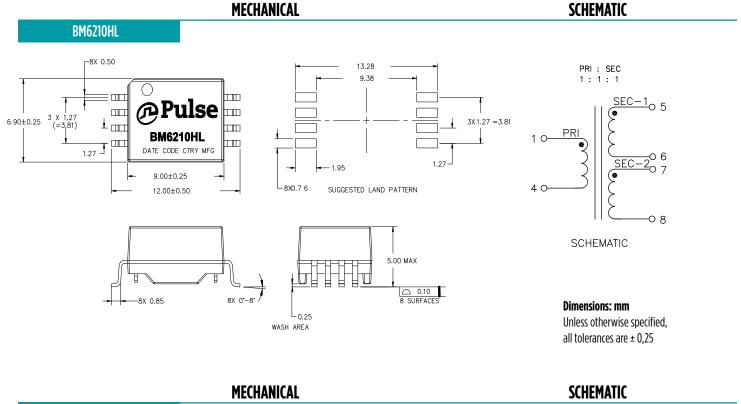
Notes

- 1. Optional T&R packaging can be ordered by adding a T suffix to the part number (ie: BM6220NL becomes BM6220NLT)
- 2. Inductance spec is for -40°C to +125°C and measured at 100kHz, 100mVrms (BM6210HL), 2MHz, 100mVrms (BM6220NL), 100kHz, 10mVrms (BM6230HL)
- 3. © represents special characteristic per IATF16949 for AEC-Q200 qualified parts on parts listed as AEC-Q200 qualified.
- 4. Insertion Loss measured from 1.5MHz to 30MHz across (1-4) for BM6220NL and (1-3) for BM6230HL
- 5. Leakage Inductance on BM6210HL measured on (1-4) with (5-6)&(7-8) shorted at 100kHz, 100mVrms, BM6220HL measured on (1-4) with (8-5) shorted at 2MHz, 100mVrms
- 6. Designed in accordance with EN/UL/IEC63268 (250Vrms working voltage unless stated, Material Group 3, Pollution Degree 2, Overvoltage Category 3)
- 7. Components are compliant to:
 - a. J-STD-002 (Solderability at 245°C reflow profile)
 - **b**. J-STD-020 (Level 1, Not Moisture Sensitive)
 - c. J-STD-075 (R7, 245C Max through Reflow Solder)
- 8. Operating Temperature is -40°C to 125°C and Storage Temperature is -50°C to 125°C on all parts
- 9. RoHS and Halogen Free design
- 10. Non-Automotive designs can be created for residential PLC solutions parts ordering prefix code letters changes from BM to BX discuss with FAE and Sales.

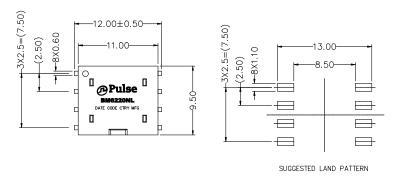
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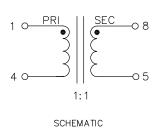
BM6210HL, BM6220NL and BM6230HL

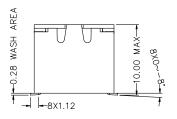


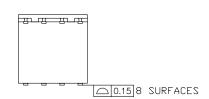


BM6220NL







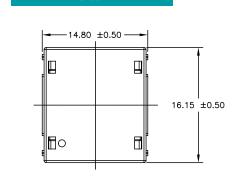


Dimensions: mmUnless otherwise specified, all tolerances are ± 0,25

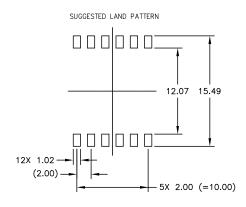
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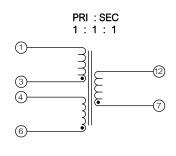


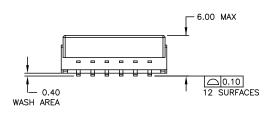
MECHANICAL SCHEMATIC

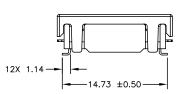


BM6230HL



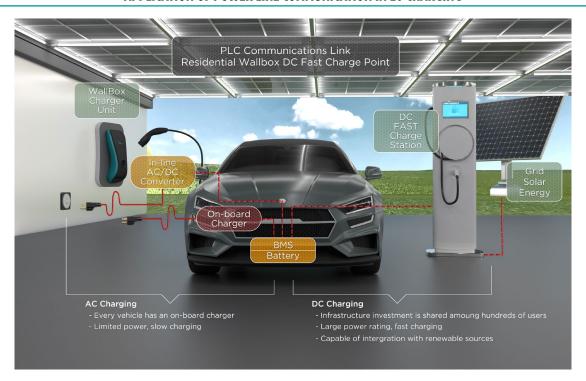






Dimensions: mmUnless otherwise specified, all tolerances are ± 0,25

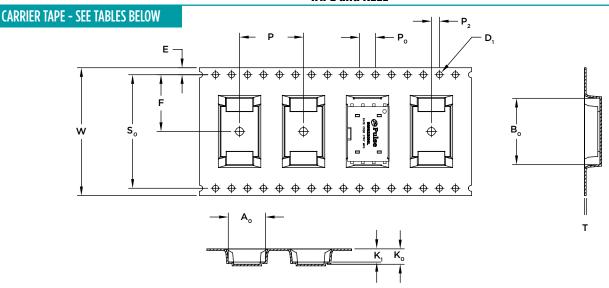
APPLICATION OF POWER LINE COMMUNICATION IN EV CHARGING



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BM6210HL, BM6220NL and BM6230HL

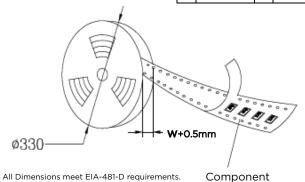
TAPE and REEL



BM6210HLT										
W	24.0+/-0.30	Р	16.00	A_{o}	7.01+/-0.10	Во	12.61+/-0.10			
So	No 2nd row feeder holes	Po	4.00	A ₁		В				
Е	1.75 +/-0.10	P ₂	2.00	A ₂		B ₂				
F	11.50+/-0.10	D_{o}		K _o	5.35	K,	3.91			
Т	0.40±0.05	D ₁	1.50 ±0.10 -0.00	Q	650 pieces					

BM6220NLT										
W	24.0+/-0.30	Р	20.00	Ao	9.80+/-0.10	Во	12.4+/-0.10			
So	No 2nd row feeder holes	Po	4.00	A,		В				
Ε	1.75 +/-0.10	P ₂	2.00	A_2		B ₂				
F	11.50+/-0.10	Do		Ko	10.40	K,				
Т	0.50 ±0.05	D,	1.50 ±0.10 -0.00	Q	UANTITY PER R	250 pieces				

BM6230HLT										
8	32.0+/-0.30	Ρ	24.00	A _o	16.10+/-0.10	Во	15.10+/-0.10			
So	28.4+/-0.30	Po	4.00	A ₁		В				
ш	1.75 +/-0.10	P ₂	2.00	A ₂		B ₂				
Æ	14.20+/-0.10	Do		K _o	7.00	K ₁				
Т	0.50±0.05	D ₁	1.50 ±0.10 -0.00	QU	IANTITY PER RE	360 pieces				



- 1. Material: Black Conductive Polystyrene
- 2. Components per Reel: see table
- 3. Quantity per carton:

24mm Tape = 6x full reels 32mm Tape = 5x full reels

For More Information:

Americas - prodinfo_network_americas@yageo.com | Europe - prodinfo_network_emea@yageo.com | Asia - prodinfo_network_asia@yageo.com

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