BM6210HL, BM6220NL and BM6230HL



Features and Benefits:

- Ø Wideband Frequency response 3~30MHz
- Industrial and Automotive Temperature range from -40°C to +125°C

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- ⑦ 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	Turns Ratio +/- 2% (N1:N2:N3)	♥ OCL ²,³ (uH Min)	${old O}^{\scriptscriptstyle 3}$ 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	
BM6210HL ⁹			N1	N2	N3	(dB Max)	(uH Max)	(vdl)	wuaimeu	Class	voltage	(1111111111)	(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. Ø 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)

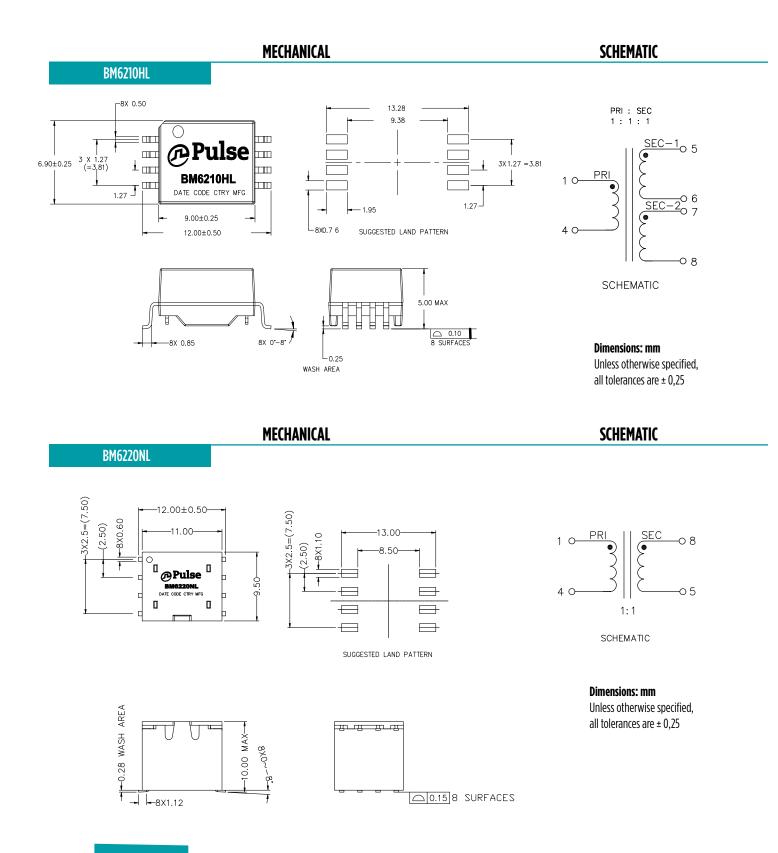
8. Operating Temperature is -40°C to 125°C and Storage Temperature is -50°C to 125°C on all parts

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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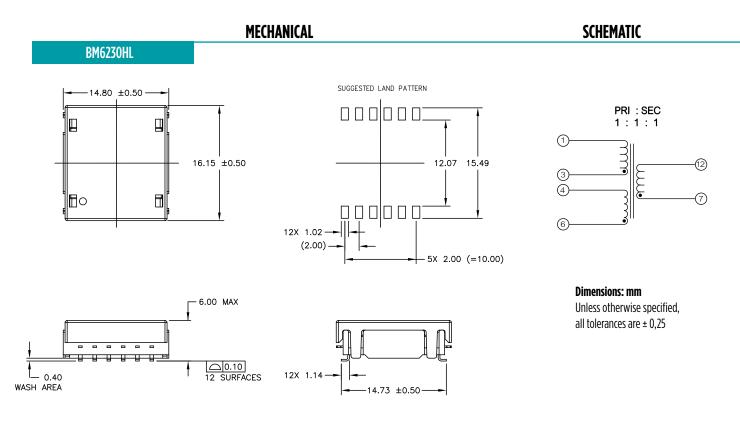
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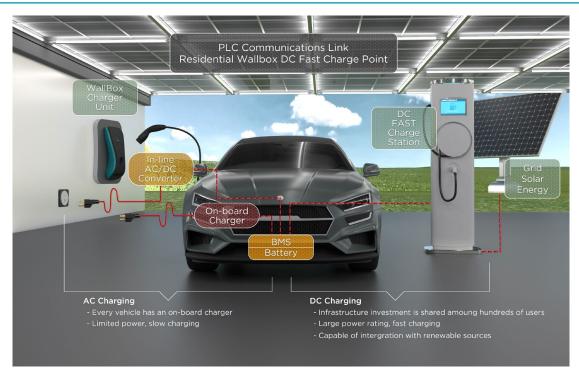
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BM6210HL, BM6220NL and BM6230HL



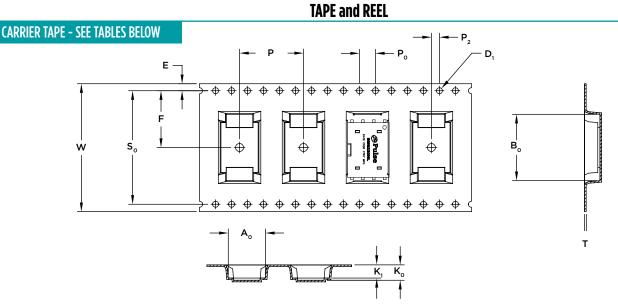


APPLICATION OF POWER LINE COMMUNICATION IN EV CHARGING



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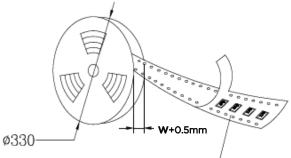
BM6210HL, BM6220NL and BM6230HL



	BM6210HLT									
W	24.0+/-0.30	Ρ	16.00	A_{o}	7.01+/-0.10	B _o	12.61+/-0.10			
S_0	No 2nd row feeder holes	Po	4.00	Α,		B				
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 $^{\pm 0.10}_{-0.00}$	QU	IANTITY PER RE	650 pieces				

BM6220NLT									
W	24.0+/-0.30	Ρ	20.00	$A_{_0}$	9.80+/-0.10	B _o	12.4+/-0.10		
S _o	No 2nd row feeder holes	P_{o}	4.00	Α,		B			
Е	1.75 +/-0.10	P ₂	2.00	A_2		B ₂			
F	11.50+/-0.10	D_{o}		Ko	10.40	K,			
т	0.50 ±0.05	D ₁	1.50 $^{\pm 0.10}_{-0.00}$	QUANTITY PER REEL 250 pieces					

BM6230HLT										
W	32.0+/-0.30	Ρ	24.00	A_{o}	16.10+/-0.10	Bo	15.10+/-0.10			
S_0	28.4+/-0.30	Po	4.00	Α,		B ₁				
Е	1.75 +/-0.10	P ₂	2.00	A_2		B ₂				
F	14.20+/-0.10	D_{o}		Ko	7.00	K,				
т	0.50±0.05	D,	1.50 $^{\pm 0.10}_{-0.00}$	QUANTITY PER REEL 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

All Dimensions meet EIA-481-D requirements.

Mara Informations

nts. Component

For More Information:

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