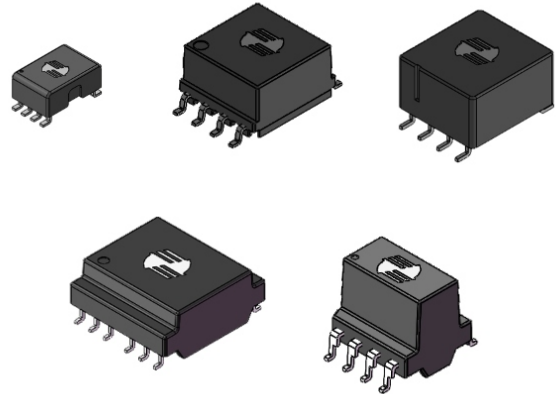




-  Frequency range 1.5MHz - 30MHz
-  Industrial Hipot isolation up to 4000V
-  Temperature ranges for Automotive and Industrial applications
-  Various turns ratios to support multiple PLC chipsets including Qualcomm, Maxim and others.
-  Design for HomePlug Green PHY™ (HPGP) e-mobility applications on EV/EVSE.
-  Comply to ISO 15118-3
-  AEC-Q200 for Automotive application



ELECTRICAL SPECIFICATION @ 25°C

Part Number	Turns Ratio +/-2% N1:N2:N3	Operating Temp. Range	OCL (uH Min)	DCR (m Max)			Insertion Loss (dB Max) 1.5MHz-30MHz
				N1	N2	N3	
A21V00042F	1:1	-40 C to +125 C	10 @1MHz, 1Vrms	60	60	-	-
A21V00043F	1:1:1	-40 C to +125 C	5 @100KHz, 0.1Vrms	500	500	500	-
821-02110F	1:2CT:1	-40 C to +125 C	12 @500KHz, 0.1Vrms	500	500	500	-
821-02111F	1:1:2	-40 C to +85 C	7 @500KHz, 0.1Vrms	250	250	500	-
821-02112F	1:1	-40 C to +85 C	7 @500KHz, 0.1Vrms	500	500	-	-
821-02113F	1:1:1	-40 C to +125 C	20 @100KHz, 0.01Vrms	65	65	65	1.2
821-02114F	1:1:1	-40 C to +125 C	8 @100KHz, 0.01Vrms	60	60	60	2.25
821-02115F	1:1:1	-40 C to +125 C	28 @10KHz, 0.02Vrms	100	100	100	2

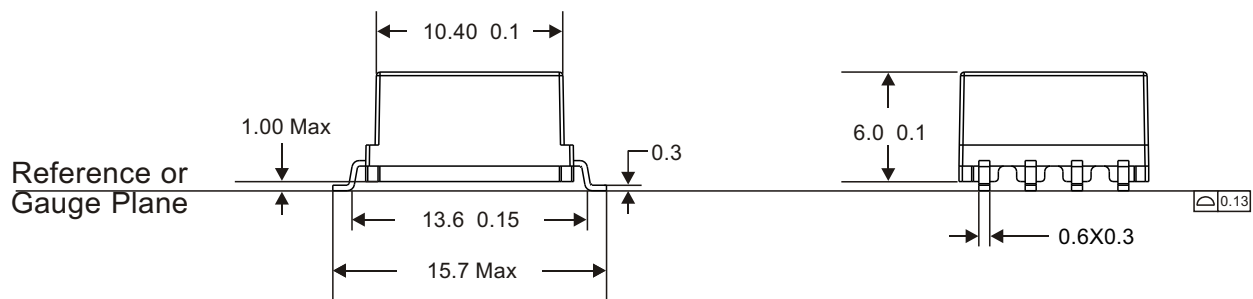
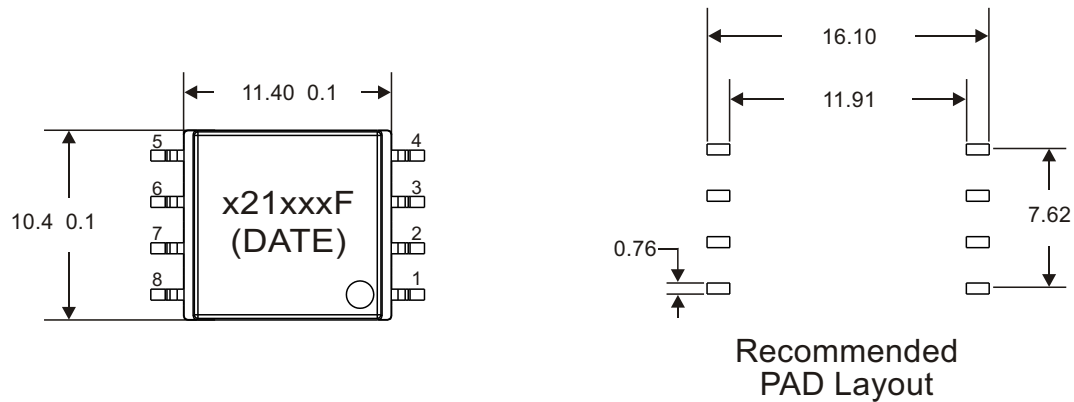
ELECTRICAL SPECIFICATION @ 25°C

Part Number	Insertion Resistance (M Min at 100V)	Leakage Inductance (uH Min)	C _{ww} (pF Max)	AEC-Q200 Qualified	Hi-pot (Vac)	Insulation Class	Clearance (mm Min)
A21V00042F	-	0.25 @1MHz, 1Vrms	-	Yes	500	Functional	-
A21V00043F	-	0.5 @100KHz, 0.1Vrms	-	Yes	500	Functional	-
821-02110F	-	-	-	No	3000	Supplementary	-
821-02111F	-	-	-	No	3000	Reinforced	-
821-02112F	-	-	25	No	4000	Reinforced	-
821-02113F	1	-	-	No	3000	Supplementary	-
821-02114F	1	-	-	No	3000	Functional	2.5
821-02115F	1	-	-	No	3000	Functional	2.5



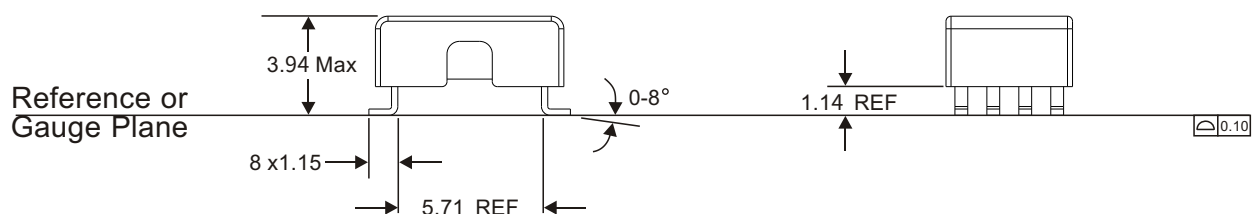
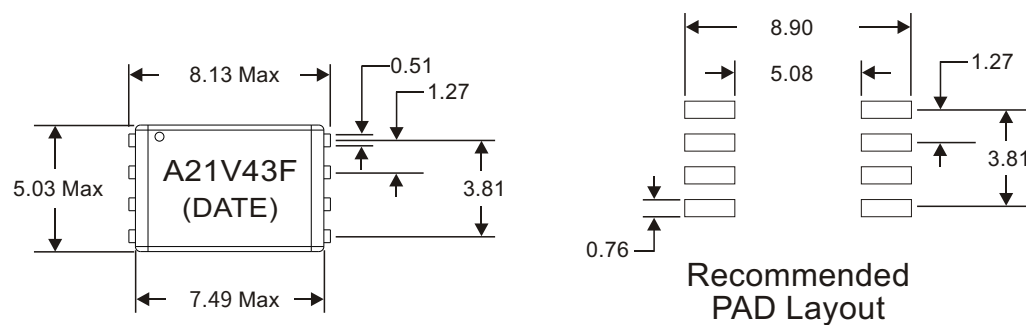
MECHANICAL DIMENSIONS

A21V00042F / 821-02113F



MECHANICAL DIMENSIONS

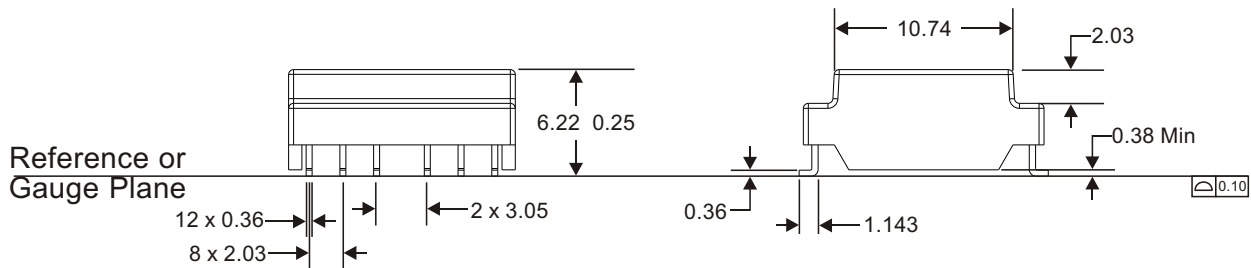
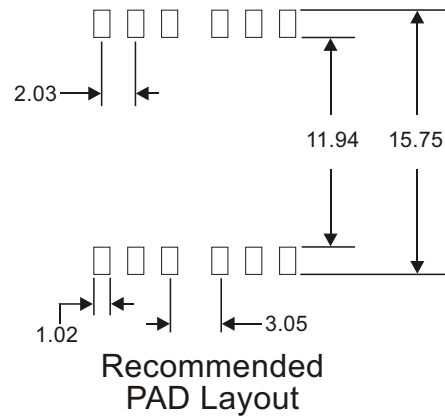
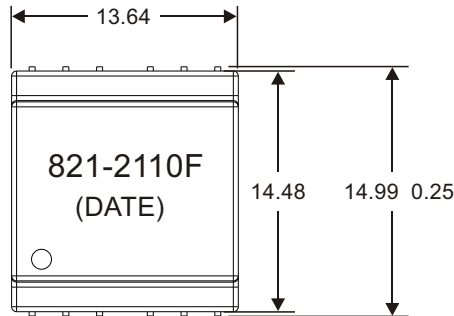
A21V00043F



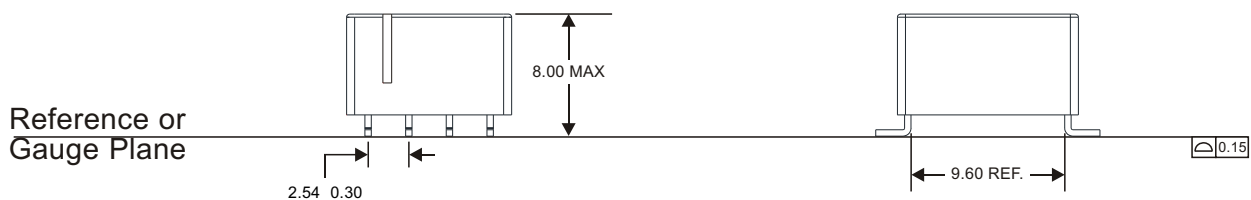
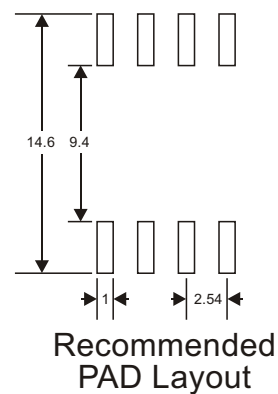
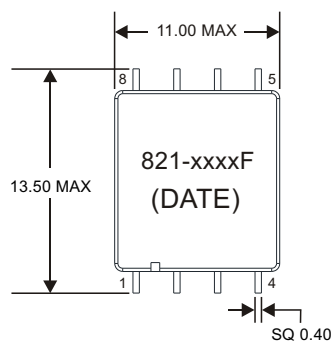


MECHANICAL DIMENSIONS

821-02110F



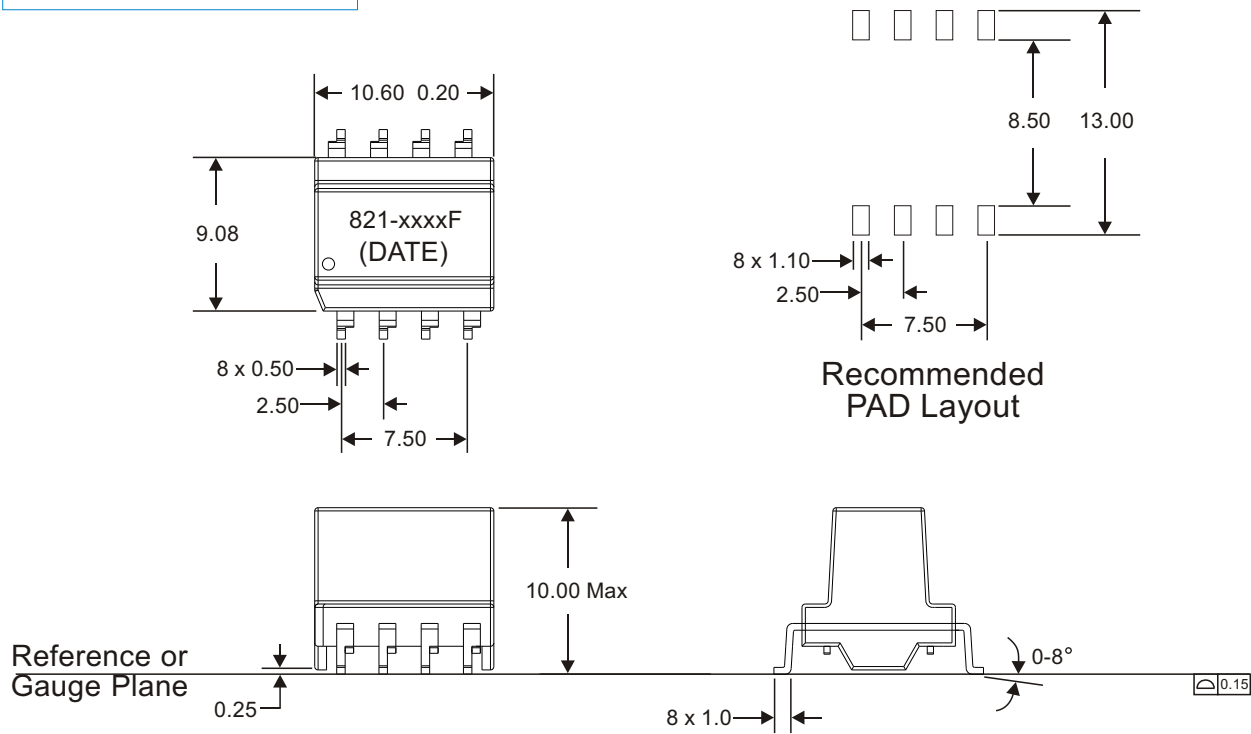
821-02111F / 821-02112F





MECHANICAL DIMENSIONS

821-02114F / 821-02115F

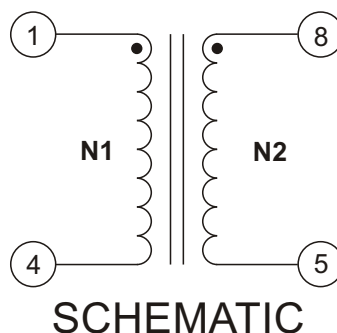


Notes:

1. Dimensions are specified in mm.
2. Unless otherwise specified, all tolerances are 0.25.
3. "(DATE)" includes at least the manufacturing date code(in YYWW format).
4. When ordering, please add suffix "T" to the part number for tape & reel packaging (330mm reel).

SCHEMATICS

A21V00042F / 821-02112F

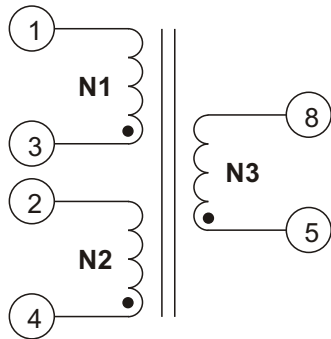




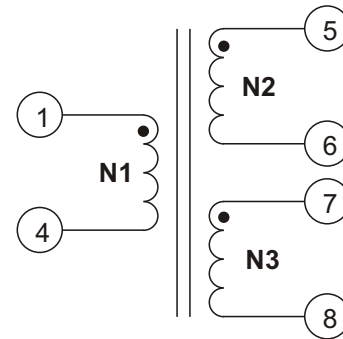
SCHEMATICS

821-02111F / 821-02113F/821-02114F / 821-02115F

A21V00043F



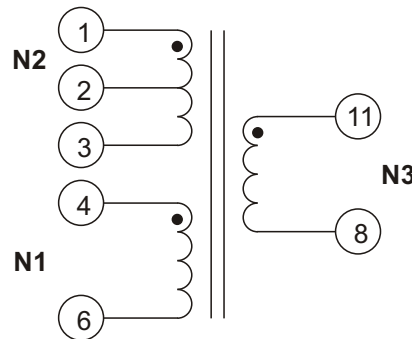
SCHEMATIC



SCHEMATIC

SCHEMATICS

821-02110F



SCHEMATIC

FOR MORE INFORMATION, PLEASE CONTACT

HONG KONG
Flat G, 5/F, Valiant Industrial Centre,
2-12 Au Pui Wan Street, Fotan, Shatin, N.T.
Hong Kong
Tel: (852) 2954 3027 Fax: (852) 2954 3304
Email: eempl@eleceltek.com
Website: <http://www.eemagnetic.com>

PRC
Rm1301-1308, Building 2,
No.4 Hongming Road, Huangpu District,
Guangzhou Economic & Technological Development District,
Guangzhou, China
Tel: (86) 20-8221-4480 Ext. 261 Fax: (86) 20-8114-9279 & 20-8114-9283

Information herein is for reference only and subject to change without notice. It does not constitute any representation, warranty or commitment of the company in respect of the products in any aspect. All logos, brands and product names mentioned herein are trademarks or registered trademarks of their respective owners. The company does not assume any liability arising out of the application or use of any product or circuit described herein. Copyrights 2025, E & E Magnetic Products Limited.

Flat G, 5/F, Valiant Industrial Centre, 2-12 Au Pui Wan Street, Fotan, Shatin, N.T. Hong Kong

Tel: (852) 2954 3027 • Fax: (852) 2954 3304