



## Selection of Line Transformers for FourtePlus, G12, and G16 Annex A/C/H CO Designs

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### Summary

This application note lists the line transformers that have been qualified by GlobeSpan for use in the following ADSL DMT, Annex A/C/H designs:

- **FourtePlus** - schematic number G-01-3104-1006C-01, Rev. 2.5 and above
- **G12** – schematic number G-01-3112-1003C-01, Rev. 1.3 and above
- **G16** – schematic number G-01-3116-1003C-01, Rev. 2.5 and above

### Qualified Line Transformers

The designs listed above utilize the Elantec EL1508CL line driver. As specified in the schematics/BOM, the required transformer turns ratio is 1:1.15, with a line side transformer inductance of 475uH.

The transformers are available in two possible mechanical outlines and board footprints: J lead or gullwing. The J leaded parts achieve the highest board density.

GlobeSpan has approved the following parts, listed in Table 1 and Table 2.

**Table 1: J Lead Type Transformers**

<b>Vendor</b>	<b>Part Number</b>	<b>Height (in inches)</b>
Midcom	51308R	.415
Halo	DSL48EP	.430
TDK	U095C013	.453
Pulse	BX2373, Rev S05	.472
Coev	C2684-02	.435
Bel Fuse	S560-6600-DT	.450

**Table 2: Gullwing Type Transformers**

<b>Vendor</b>	<b>Part Number</b>	<b>Height (in inches)</b>
UMEC	UTB000241S	.496
Midcom	51428R	.550

Customers are responsible for verification of pinout, mechanical dimensions, electrical specifications, and safety approvals of the selected transformers. GlobeSpan has determined that the transformers listed in Table 1 and 2 substantially meet our performance requirements in this application. GlobeSpan cannot guarantee exact equivalence of the transformers or their performance in the system.