



**BICRON® Electronics Company**  
**"STANDARD" series High Frequency Transformers**  
**— Performance Ranges**

		TRANSFORMER CONFIGURATION									
		(standard platforms—see table at lower left for approximate sizes)									
		"1"	"2"	"3"	"4"	5"	"6"	"7"	"8"	"9"	"10"
VA RATING	≤10	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	≤20		✓	✓	✓	✓	✓	✓	✓	✓	✓
	≤30			✓	✓	✓	✓	✓	✓	✓	✓
	≤50				✓	✓	✓	✓	✓	✓	✓
	≤100					✓	✓	✓	✓	✓	✓
	≤150						✓	✓	✓	✓	✓
	≤250							✓	✓	✓	✓
	≤300								✓	✓	✓
	≤400									✓	✓
≥2000										✓	
VOLTAGE INPUT	≤50	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	≤75		✓	✓	✓	✓	✓	✓	✓	✓	✓
	≤100			✓	✓	✓	✓	✓	✓	✓	✓
	≤125				✓	✓	✓	✓	✓	✓	✓
	≤150					✓	✓	✓	✓	✓	✓
	≤250						✓	✓	✓	✓	✓
	≤500							✓	✓	✓	✓
	≤600								✓	✓	✓
	≤700									✓	✓
VOLTAGE OUTPUT	≤50	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	≤75		✓	✓	✓	✓	✓	✓	✓	✓	✓
	≤100			✓	✓	✓	✓	✓	✓	✓	✓
	≤125				✓	✓	✓	✓	✓	✓	✓
	≤150					✓	✓	✓	✓	✓	✓
	≤250						✓	✓	✓	✓	✓
	≤500							✓	✓	✓	✓
	≤600								✓	✓	✓
	≤700									✓	✓
HIPOT LEVEL IN KV	≤2.5	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	≤4		✓	✓	✓	✓	✓	✓	✓	✓	✓
	≤4.5			✓	✓	✓	✓	✓	✓	✓	
	≤5.2			✓	✓	✓	✓	✓	✓	✓	
	≤8				✓	✓	✓	✓	✓	✓	
	≤9					✓	✓	✓	✓	✓	
	≤12						✓	✓	✓	✓	
	≤25							✓	✓	✓	
	≤42								✓	✓	
CORONA-FREE LEVEL IN KV	≤2	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	≤2.3		✓	✓	✓	✓	✓	✓	✓	✓	✓
	≤2.5		✓	✓	✓	✓	✓	✓	✓	✓	
	≤3			✓	✓	✓	✓	✓	✓	✓	
	≤3.5				✓	✓	✓	✓	✓	✓	
	≤3.5					✓	✓	✓	✓	✓	
	≤4						✓	✓	✓	✓	
	≤10							✓	✓	✓	
	≤13								✓	✓	
BIL LEVEL IN KV	8	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	10		✓	✓	✓	✓	✓	✓	✓	✓	✓
	11			✓	✓	✓	✓	✓	✓	✓	✓
	12			✓	✓	✓	✓	✓	✓	✓	
	14				✓	✓	✓	✓	✓	✓	
	16					✓	✓	✓	✓	✓	
	20						✓	✓	✓	✓	
	60							✓	✓	✓	
	65								✓	✓	

<b>TRANSFORMER MECHANICAL SIZES (APPROXIMATE)</b>			
<b>CONFIGURATION</b>	<b>Length</b>	<b>Width</b>	<b>Height</b>
"1"	0.80	0.80	0.50
"2"	1.00	1.00	0.85
"3"	0.99	0.93	0.75
"4"	1.25	1.25	1.40
"5"	1.80	1.50	1.10
"6"	2.55	2.00	1.50
"7"	2.50	2.50	1.50
"8"	2.55	2.00	1.50
"9"	3.75	3.45	2.5
"10"	2.18	1.30	2.18

*A note on reading the tables:*

Check marks with a green background indicate that a transformer can be supplied with that performance value. For example, a transformer with a VA rating of  $\leq 10$  can be supplied in every size configuration, "1" through "10". A transformer with a VA rating of  $\geq 2000$  can only be supplied in the size "10" configuration.

Contact Bicon engineering for further information and consultation on solutions related to high frequency, high voltage IGBT circuits and associated gate drive transformer power sources.

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