

TRANSFORMERS & INDUCTORS



MYRRA  
*...Of course !*



MYRRA Part N°	CORE SIZE	Max. Output Power	Outputs				
		Watts	Vdc nominal voltage				
<b>74000</b>	E16	5w	5v	12v			
<b>74001</b>	E16	6w	5v				
<b>74002</b>	E16	6w	12v				
<b>74003</b>	E16	5w	3.3v	5v			
<b>74010</b>	E16	12w	5v	12v			
<b>74014</b>	E16	12w	24v	24v			
<b>74015</b>	E16	12w	5v	15v	24v		
<b>74020</b>	EL19	18w	5v	12v			
<b>74021</b>	EL19	18w	5v	12v			
<b>74023</b>	EL19	16w	3.3v	5v	12v	18v	30v
<b>74030</b>	E25	30w	5v	12v	12v		
<b>74032</b>	E25	35w	24v				
<b>74040</b>	ETD29	60w	5v	12v	5v	12v	
<b>74043</b>	ERL28	60w	3.3v	5v	12v	18v	30v
<b>74050</b>	ETD34	90w	5v	12v	5v	12v	
<b>74060</b>	ETD39	140w	5v	12v	5v	12v	
<b>74070</b>	ETD44	180w	5v	12v	5v	12v	
<b>74080</b>	EF20	24w	12v	12v			
<b>74081</b>	EF20	20w	3.3v	5v	12v		
<b>74082</b>	EF20	20w	5v	5v			
<b>74090</b>	E16	1.5w	5v				
<b>74091</b>	E16	1.5w	12v				
<b>74092</b>	E16	3.1w	5v				
<b>74093</b>	E16	3.1w	12v				
<b>74094</b>	E16	9w	5v				
<b>74095</b>	E16	9w	12v				

Note : "5 volts" outputs can generally be used for 3.3 to 6volts; "12 volts" outputs can be used for 9 to 16volts.  
See detailed characteristics.



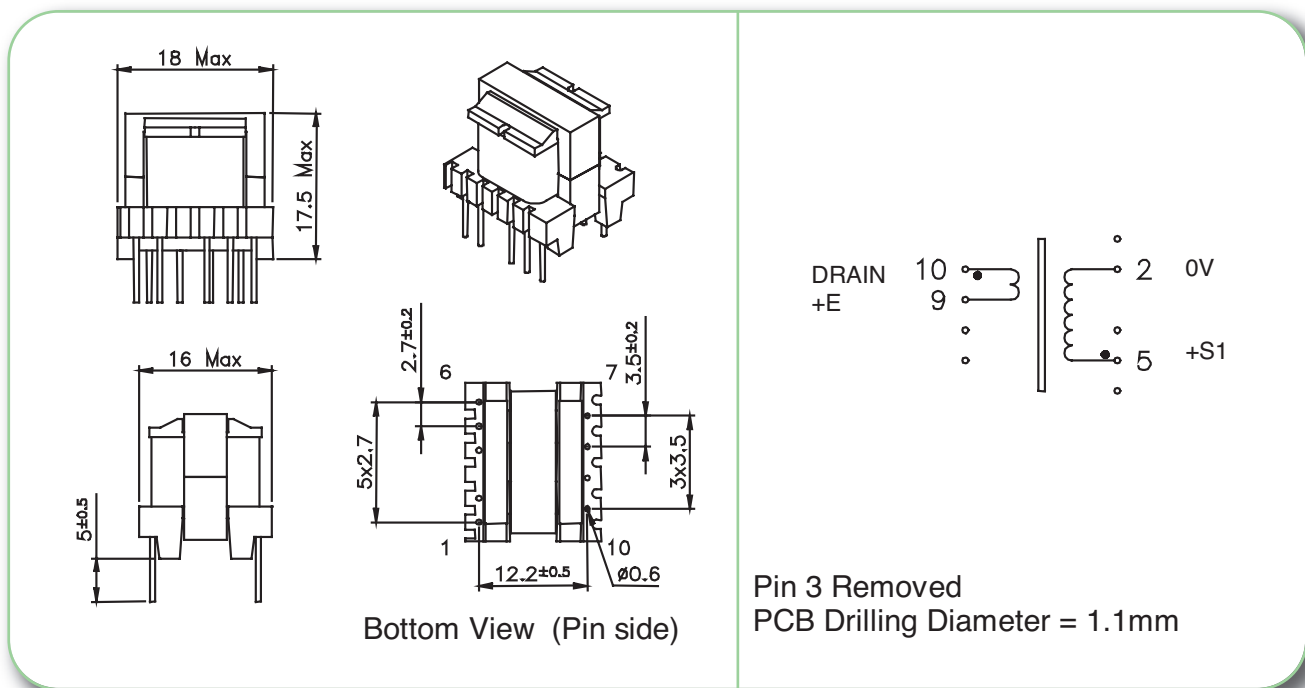
Transformer Reference		IC Manufacturer	Series & References
74090 74091 74092 74093 74094 74095	No aux. Winding	PI	TNY Series LNK XT Series

74000 74001 74002 74003 74004 74005 74010 74014 74015 74020 74021 74023 74080 74081 74082 74087 74088 74089 74030 74032 74040 74043 74050 74060 74070	With aux. Winding	ONSEMI	NCP 1014 NCP 3065 etc.
		PI	TOP Series LNK Series
		NXP	TEA1530 TEA1351 TEA3065 etc.
		ST	Viper Series
		FAIRCHILD	FAN102 FAN400 FSEZ130 FSEZ1213 etc.
		ON Bright	OB2535 OB2212 OB2361 etc.

HIGH FREQUENCY FERRITE  
POWER FERRITE TRANSFORMERS



- Primary / Secondary Insulation  $\geq 4000V$
- Creepage distance Primary / Secondary  $\geq 6mm$
- Ambient temperature  $< 85^{\circ}C$
- Construction conforms to IEC950, IEC335, IEC61558-2-16 for reinforced insulation
- Exclusively uses UL94-V0 listed materials



MYRRA P / N	Output Power maximum	Windings					
			Pins	Turns	Voltage	Current maximum	Inductance (+/-10%)
<b>74090</b>	1.5 w	Pri	10 – 9	228	85 - 265Vrms	0.28 Apeak	6000µH
		S1	5 – 2	16	3.3 – 6 Vdc	0.4 Adc	
<b>74091</b>	1.5 w	Pri	10 – 9	228	85 - 265Vrms	0.28 Apeak	6000µH
		S1	5 – 2	28	7.5 – 15 Vdc	0.2 Adc	

Examples of application with Integrated Circuits :

MYRRA P / N	Control IC Manufacturer	Input voltage	Power	Frequency
<b>74090</b>	Power Integrations	85 - 265Vrms	1.5w	44kHz
<b>74091</b>	Power Integrations	85 - 265Vrms	1.5w	44kHz

HIGH FREQUENCY FERRITE POWER FERRITE TRANSFORMERS



- Primary / Secondary Insulation  $\geq 4000V$
- Creepage distance Primary / Secondary  $\geq 6mm$
- Ambient temperature  $< 70^{\circ}C$
- Construction conforms to IEC950, IEC335, IEC61558-2-16 for reinforced insulation
- Exclusively uses UL94-V0 listed materials

Bottom View (Pin side)

Pin 3 Removed  
PCB Drilling Diameter = 1.1mm

MYRRA P / N	Output Power maximum	Windings					
			Pins	Turns	Voltage	Current maximum	Inductance (+/-10%)
74092	3.1 w	Pri	10 – 9	191	85 - 265Vrms	0.34 Apeak	4200µH
		S1	5 – 2	13	3.3 – 6 Vdc	0.9 Adc	
74093	3.1 w	Pri	10 – 9	191	85 - 265Vrms	0.34 Apeak	4200µH
		S1	5 – 2	24	7.5 – 15 Vdc	0.4 Adc	

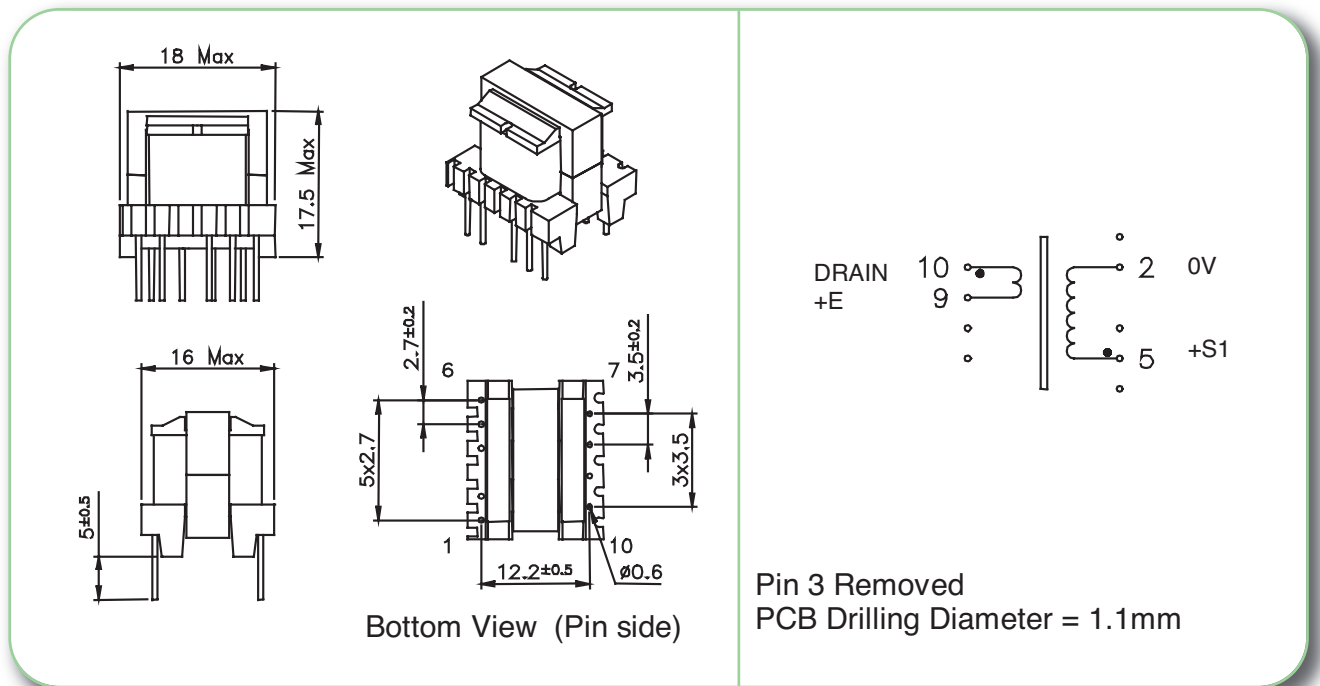
Examples of application with Integrated Circuits :

MYRRA P / N	Control IC Manufacturer	Input voltage	Power	Frequency
74092	Power Integrations	85 - 265Vrms	3.1w	44kHz
74093	Power Integrations	85 - 265Vrms	3.1w	44kHz

HIGH FREQUENCY FERRITE  
POWER FERRITE TRANSFORMERS



- Primary / Secondary Insulation  $\geq 4000V$
- Creepage distance Primary / Secondary  $\geq 6mm$
- Ambient temperature  $< 60^{\circ}C$
- Construction conforms to IEC950, IEC335, IEC61558-2-16 for reinforced insulation
- Exclusively uses UL94-V0 listed materials



MYRRA P / N	Output Power maximum	Windings					
			Pins	Turns	Voltage	Current maximum	Inductance (+/-10%)
74094	9 w	Pri	10 – 9	135	85 - 265Vrms	0.48 Apeak	2100µH
		S1	5 – 2	9	3.3 – 6 Vdc	1.5 Adc	
74095	9 w	Pri	10 – 9	135	85 - 265Vrms	0.48 Apeak	2100µH
		S1	5 – 2	17	7.5 – 15 Vdc	0.9 Adc	

Examples of application with Integrated Circuits :

MYRRA P / N	Control IC Manufacturer	Input voltage	Power	Frequency
74094	Power Integrations	85 - 265Vrms	4.2w	44kHz
	Power Integrations	85 - 265Vrms	5w	132kHz
	Power Integrations	85 - 265Vrms	9w	132kHz
74095	Power Integrations	85 - 265Vrms	5w	44kHz
	Power Integrations	85 - 265Vrms	5w	132kHz
	Power Integrations	85 - 265Vrms	9w	132kHz

HIGH FREQUENCY FERRITE POWER FERRITE TRANSFORMERS



- Primary / Secondary Insulation  $\geq 4000V$
- Primary / Auxiliary Insulation  $\geq 1500V$
- Creepage distance Primary / Secondary  $\geq 6mm$
- Ambient temperature  $< 70^{\circ}C$
- Construction conforms to IEC950, IEC335, IEC61558-2-16 for reinforced insulation
- Exclusively uses UL94-V0 listed materials

18 Max  
17.5 Max  
16 Max  
5±0.5  
2.7±0.2  
6  
7  
3.5±0.2  
10  
12.2±0.5  
Ø0.6  
3x3.5

+E 6  
 DRAIN 4  
 +AUX 2  
 0V 1

7 +S2  
 8 0V  
 9 +S1  
 10 0V

74000

PIN 3 Removed  
PCB Drilling Diameter = 1.1mm

Bottom View (Pin side)

MYRRA P / N	Output Power maximum	Windings					
			Pins	Turns	Voltage	Current maximum	Inductance (+/-10%)
74000	5 w	Pri	4 - 6	138	85 - 265Vrms	0.27 Apeak	3900µH
		Aux	2 - 1	16	7 - 14 Vdc	0.1 Adc	
		S1	9 - 10	8	3.3 - 7 Vdc	1.2 Adc	
		S2	7 - 8	19	8 - 17 Vdc	0.4 Adc	

Examples of application with Integrated Circuits :

MYRRA P / N	Control IC Manufacturer	Input voltage	Power	Frequency
74000	Power Integrations	85 - 265Vrms	5w	132kHz
	ST Microelectronics	85 - 265Vrms	4w	70kHz

HIGH FREQUENCY FERRITE  
POWER FERRITE TRANSFORMERS



- Primary / Secondary Insulation  $\geq 4000V$
- Primary / Auxiliary Insulation  $\geq 1500V$
- Creepage distance Primary / Secondary  $\geq 6mm$
- Ambient temperature  $< 60^{\circ}C$
- Construction conforms to IEC950, IEC335, IEC61558-2-16 for reinforced insulation
- Exclusively uses UL94-V0 listed materials

Bottom View (Pin side)

PIN 3 Removed  
PCB Drilling Diameter = 1.1mm

MYRRA P / N	Output Power maximum	Windings					
			Pins	Turns	Voltage	Current maximum	Inductance (+/-10%)
74001	6 w	Pri	4 - 6	138	85 - 265Vrms	0.35 Apeak	3000µH
		Aux	2 - 1	20	8 - 16 Vdc	0.1 Adc	
		S1	9 - 10	8	3 - 6 Vdc	1.2 Adc	
74002	6 w	Pri	4 - 6	150	85 - 265Vrms	0.38 Apeak	3000µH
		Aux	2 - 1	22	8.5 - 17 Vdc	0.1 Adc	
		S1	9 - 10	24	9 - 18 Vdc	0.5 Adc	

Examples of application with Integrated Circuits :

MYRRA P / N	Control IC Manufacturer	Input voltage	Power	Frequency
74001	Power Integrations	85 - 265Vrms	6w	132kHz
	ST Microelectronics	85 - 265Vrms	6w	70kHz
	ST Microelectronics	85 - 265Vrms	3w	40kHz
	Motorola	85 - 265Vrms	6w	100kHz
	Infineon	185 - 265Vrms	6w	100kHz
74002	Power Integrations	85 - 265Vrms	6w	132kHz
	ST Microelectronics	85 - 265Vrms	6w	70kHz
	ST Microelectronics	85 - 265Vrms	3w	40kHz
	Motorola	85 - 265Vrms	6w	100kHz
	Infineon	185 - 265Vrms	6w	100kHz

HIGH FREQUENCY FERRITE  
POWER FERRITE TRANSFORMERS





- Primary / Secondary Insulation  $\geq 4000V$
- Primary / Auxiliary Insulation  $\geq 1500V$
- Creepage distance Primary / Secondary  $\geq 6mm$
- Ambient temperature  $< 60^{\circ}C$
- Construction conforms to IEC950, IEC335, IEC61558-2-16 for reinforced insulation
- Exclusively uses UL94-V0 listed materials

Bottom View (Pin side)

PIN 3 Removed  
PCB Drilling Diameter = 1.1mm

MYRRA P / N	Output Power maximum	Windings					
			Pins	Turns	Voltage	Current maximum	Inductance (+/-10%)
74003	6 w	Pri	4 - 6	120	85 - 265Vrms	0.3 Apeak	3000µH
		Aux	2 - 1	17	8 – 16 Vdc	0.1 Adc	
		S1	9 - 10	5	2 – 4 Vdc	1.8 Adc	
		S2	7 - 10	7	3 – 6 Vdc	1.2 Adc	

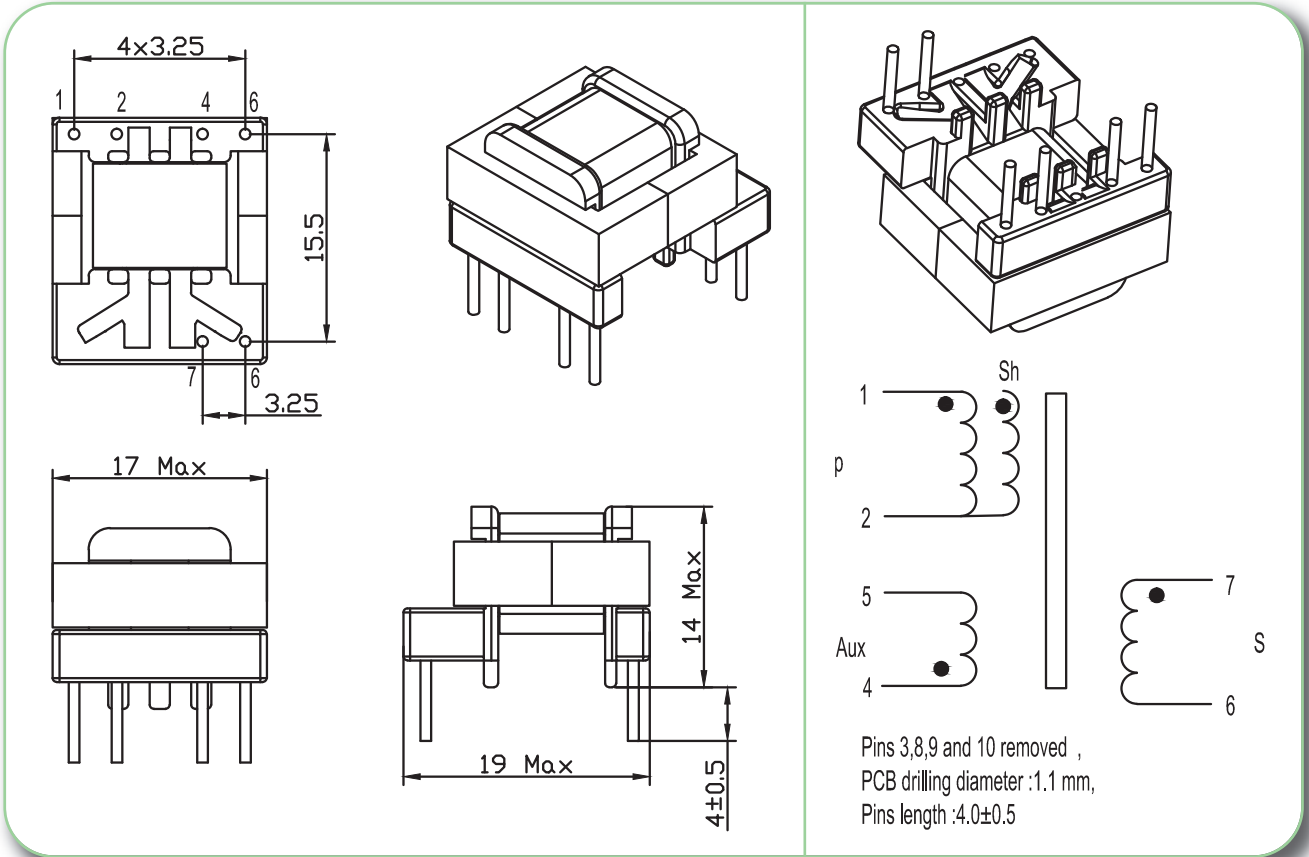
Examples of application with Integrated Circuits :

MYRRA P / N	Control IC Manufacturer	Input voltage	Power	Frequency
74003	Power Integrations	85 - 265Vrms	5w	132kHz
	ST Microelectronics	85 - 265Vrms	6w	70kHz
	ST Microelectronics	85 - 265Vrms	3w	40kHz
	Motorola	85 - 265Vrms	6w	100kHz
	Infineon	185 - 265Vrms	6w	100kHz

HIGH FREQUENCY FERRITE  
POWER FERRITE TRANSFORMERS



- Primary / Secondary Insulation  $\geq 4000$  V
- Primary / Auxiliary Insulation  $\geq 1500$  V
- Creepage distance Primary / Secondary  $\geq 6$ mm
- Ambient temperature  $< 50^{\circ}\text{C}$
- Construction conforms to IEC950, IEC335, IEC61558-2-16 for reinforced insulation
- Exclusively uses UL94 V-0 listed materials



MYRRA P/N	Output Power maximum	Windings					
			Pins	Turns	Voltage	Current maximum	Inductance (+/-10%)
74004	1.7 w	Pri	1 - 2	108	85 - 265Vrms	0.28 Apeak	2700 $\mu\text{H}$
		Aux	5 - 4	25	22 Vdc	0.1 Adc	
		S	7 - 6	8	6 Vdc	0.5 Adc	
		Shield	NC - 2	8			

Examples of application with Integrated Circuits :

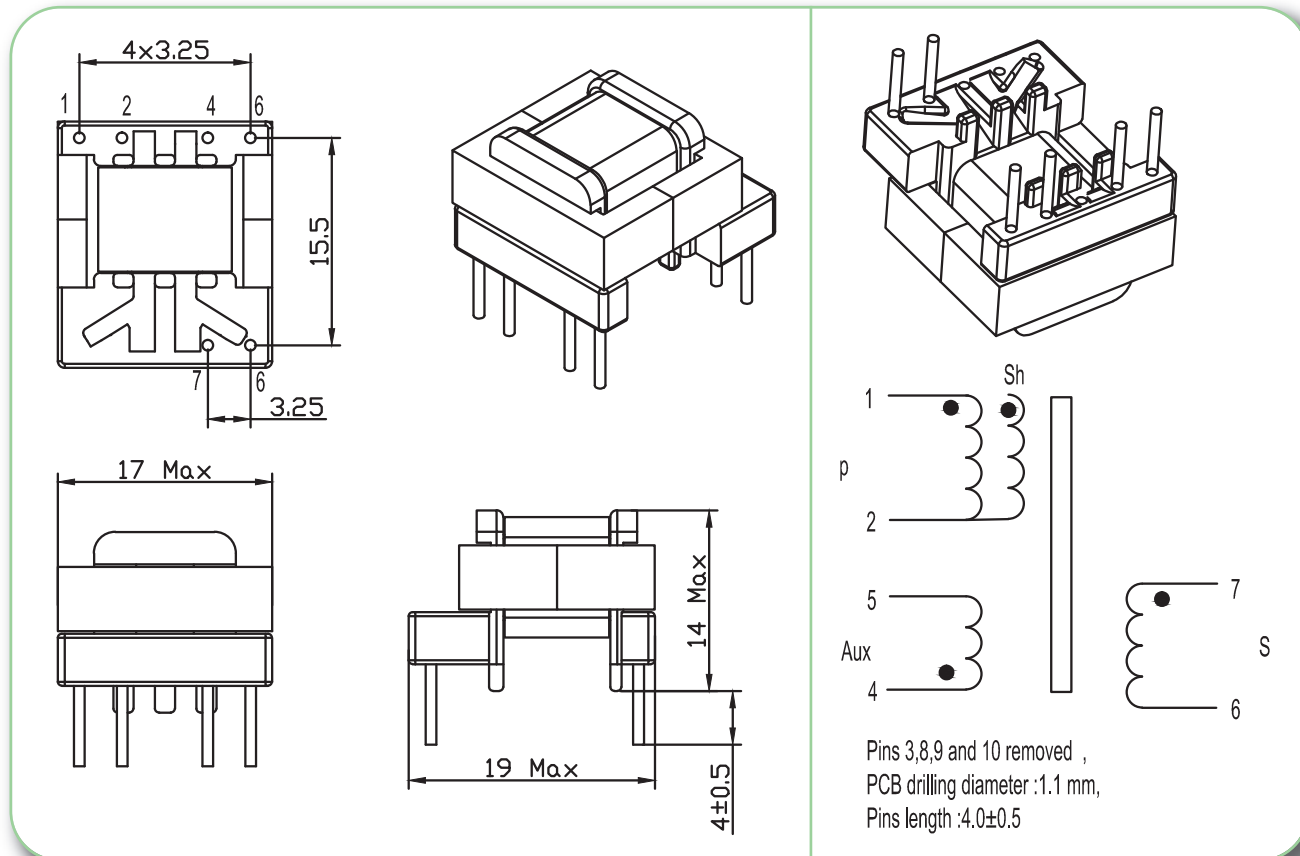
MYRRA P/N	Control IC Manufacturer	Control IC P/N	Input voltage	Power	Frequency
74004	Power Integrations	LNK562	185 - 265 Vrms	1.3 W	66 kHz
	Power integrations	LNK562	85 - 265 Vrms	1.3 W	66 kHz
	Power Integrations	LNK563	185 - 265 Vrms	1.7 W	83 kHz
	Power Integrations	LNK563	85 - 265 Vrms	1.7 W	83 kHz
	Power Integrations	LNK564	185 - 265 Vrms	2.0 W	100 kHz
	Power Integrations	LNK564	85 - 265 Vrms	2.0 W	100 kHz

Remarks : This transformer perfectly fulfils the specification of Power Integrations AN-39 Appendix - A.

HIGH FREQUENCY FERRITE  
POWER FERRITE TRANSFORMERS



- Primary / Secondary Insulation  $\geq 4000$  V
- Primary / Auxiliary Insulation  $\geq 1500$  V
- Creepage distance Primary / Secondary  $\geq 6$ mm
- Ambient temperature  $< 50^{\circ}\text{C}$
- Construction conforms to IEC950, IEC335, IEC61558-2-16 for reinforced insulation
- Exclusively uses UL94 V-0 listed materials



MYRRA P/N	Output Power maximum	Windings					
			Pins	Turns	Voltage	Current maximum	Inductance (+/-10%)
74005	1.7 w	Pri	1 - 2	108	85 - 265Vrms	0.28 Apeak	2700 $\mu\text{H}$
	Aux	5 - 4	25	22 Vdc	0.1 Adc		
	S	7 - 6	12	10 Vdc	0.2 Adc		
	Shield	NC - 2	8				

Examples of application with Integrated Circuits :

MYRRA P/N	Control IC Manufacturer	Control IC P/N	Input voltage	Power	Frequency
74005	Power Integrations	LNK562	185 - 265 Vrms	1.3 W	66 kHz
	Power integrations	LNK562	85 - 265 Vrms	1.3 W	66 kHz
	Power Integrations	LNK563	185 - 265 Vrms	1.7 W	83 kHz
	Power Integrations	LNK563	85 - 265 Vrms	1.7 W	83 kHz
	Power Integrations	LNK564	185 - 265 Vrms	2.0 W	100 kHz
	Power Integrations	LNK564	85 - 265 Vrms	2.0 W	100 kHz

Remarks : This transformer perfectly fulfils the specification of Power Integrations AN-39 Appendix - B.



- Primary / Secondary Insulation  $\geq 4000V$
- Primary / Auxiliary Insulation  $\geq 1500V$
- Creepage distance Primary / Secondary  $\geq 6mm$
- Ambient temperature  $< 50^{\circ}C$
- Construction conforms to IEC950, IEC335, IEC61558-2-16 for reinforced insulation
- Exclusively uses UL94-V0 listed materials

18 Max  
17.5 Max  
16 Max  
5±0.5  
2.7±0.2  
3.5±0.2  
5x2.7  
12.2±0.5  
10  
Ø0.6  
3x3.5

Bottom View (Pin side)

+E 6  
DRAIN 4  
+AUX 2  
0V 1

7 8 9 10  
+S2  
0V  
+S1  
0V

74010

PIN 3 Removed  
PCB Drilling Diameter = 1.1mm

MYRRA P / N	Output Power maximum	Windings					
			Pins	Turns	Voltage	Current maximum	Inductance (+/-10%)
74010	12 w	Pri	4 - 6	120	85 - 265Vrms	0.55 Apeak	1660µH
		Aux	2 - 1	14	7 - 14 Vdc	0.1 Adc	
		S1	9 - 10	7	3.3 - 7 Vdc	2 Adc	
		S2	7 - 8	17	8 - 17 Vdc	1 Adc	

Examples of application with Integrated Circuits :

MYRRA P / N	Control IC Manufacturer	Input voltage	Power	Frequency
74010	Power Integrations	185 - 265Vrms	12w	132kHz
	Power Integrations	85 - 265Vrms	10w	132kHz
	Power Integrations	185 - 265Vrms	12w	132kHz
	Power Integrations	85 - 265Vrms	10w	132kHz
	Power Integrations	185 - 265Vrms	12w	132kHz
	ST Microelectronics	85 - 265Vrms	8w	70kHz
	ST Microelectronics	185 - 265Vrms	10w	70kHz
	Motorola	85 - 265Vrms	8w	100kHz
	Motorola	185 - 265Vrms	10w	100kHz
	Infineon	92 - 265Vrms	7,5w	100kHz
	Infineon	185 - 265Vrms	10w	100kHz
	Fairchild	85 - 265Vrms	7w	50kHz
Fairchild	185 - 265Vrms	10w	100kHz	

HIGH FREQUENCY FERRITE  
POWER FERRITE TRANSFORMERS



- Primary / Secondary Insulation  $\geq 4000V$
- Primary / Auxiliary Insulation  $\geq 1500V$
- Creepage distance Primary / Secondary  $\geq 6mm$
- Ambient temperature  $< 50^{\circ}C$
- Construction conforms to IEC950, IEC335, IEC61558-2-16 for reinforced insulation
- Exclusively uses UL94-V0 listed materials

Bottom View (Pin side)

74014

PIN 3 Removed  
PCB Drilling Diameter = 1.1mm

MYRRA P / N	Output Power maximum	Windings					
			Pins	Turns	Voltage	Current maximum	Inductance (+/-10%)
<b>74014</b>	12 w	Pri	4 - 6	120	85 - 265Vrms	0.5 Apeak	1800µH
		Aux	2 - 1	17	9 – 18 Vdc	0.2 Adc	
		S1	9 - 10	27	15 – 30 Vdc	0.4 Adc	
		S2	7 - 8	27	15 – 30 Vdc	0.4 Adc	

Typical outputs :  
 +24V 0.5A with S1 – S2 in parallel  
 +48V 0.25A with S1 – S2 in series (8-9 connected)  
 +15V / -15V 0.4A with pins 8-9 connected to 0V

Examples of application with Integrated Circuits :

MYRRA P / N	Control IC Manufacturer	Input voltage	Power	Frequency
<b>74014</b>	Power Integrations	185 - 265Vrms	12w	
	Power Integrations	85 - 265Vrms	8w	
	Power Integrations	185 - 265Vrms	12w	132kHz
	Power Integrations	85 - 265Vrms	8w	132kHz

HIGH FREQUENCY FERRITE  
POWER FERRITE TRANSFORMERS



- Primary / Secondary Insulation  $\geq 4000V$
- Primary / Auxiliary Insulation  $\geq 1500V$
- Creepage distance Primary / Secondary  $\geq 6mm$
- Ambient temperature  $< 50^{\circ}C$
- Construction conforms to IEC950, IEC335, IEC61558-2-16 for reinforced insulation
- Exclusively uses UL94-V0 listed materials

+E 6

DRAIN 4

+AUX 2

0V 1

74015

+S3 7

+S2 8

+S1 9

0V 10

Bottom View (Pin side)

PIN 3 Removed  
PCB Drilling Diameter = 1.1mm

MYRRA P / N	Output Power maximum	Windings					
			Pins	Turns	Voltage	Current maximum	Inductance (+/-10%)
<b>74015</b>	12 w	Pri	4 - 6	120	85 - 265Vrms	0.5 Apeak	1800µH
		Aux	2 - 1	14	12 Vdc	0.2 Adc	
		S1	9 - 10	6	5 Vdc	1.5 Adc	
		S2	8 - 10	17	15 Vdc	0.6 Adc	
		S3	7 - 10	27	24 Vdc	0.4 Adc	

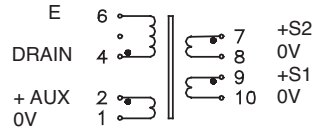
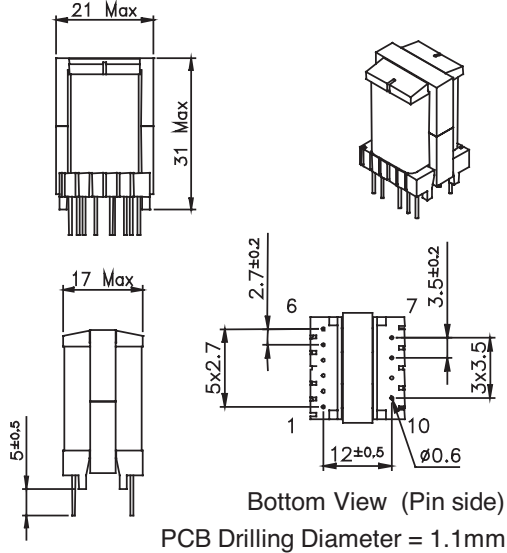
Examples of application with Integrated Circuits :

MYRRA P / N	Control IC Manufacturer	Input voltage	Power	Frequency
<b>74015</b>	Power Integrations	185 - 265Vrms	10w	
	Power Integrations	85 - 265Vrms	8w	
	Power Integrations	185 - 265Vrms	12w	132kHz
	Power Integrations	85 - 265Vrms	9w	132kHz

HIGH FREQUENCY FERRITE  
POWER FERRITE TRANSFORMERS



- Primary / Secondary Insulation  $\geq 4000V$
- Primary / Auxiliary Insulation  $\geq 1500V$
- Creepage distance Primary / Secondary  $\geq 6mm$
- Ambient temperature  $< 50^{\circ}C$
- Construction conforms to IEC950, IEC335, IEC61558-2-16 for reinforced insulation
- Exclusively uses UL94-V0 listed materials



74020 / 74021

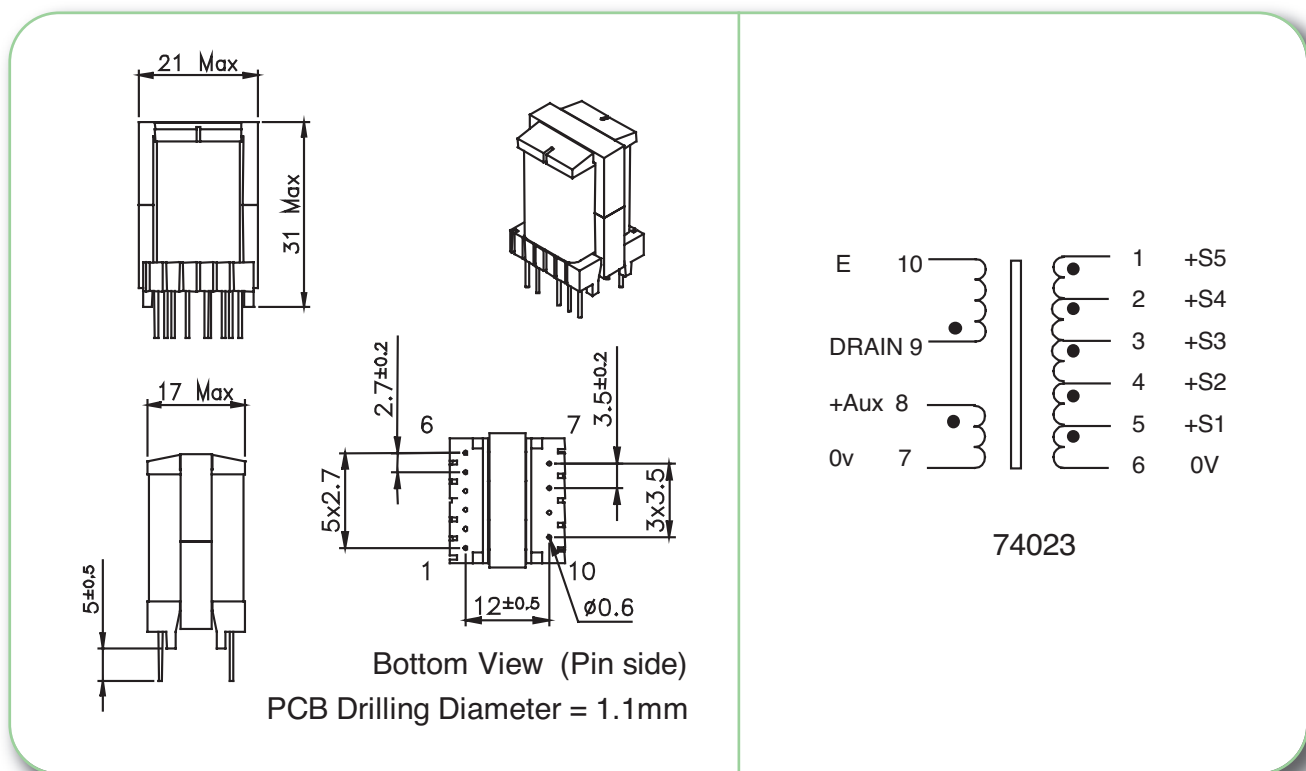
MYRRA P / N	Output Power maximum	Windings					
			Pins	Turns	Voltage	Current maximum	Inductance (+/-10%)
74020	18 w	Pri	4 - 6	108	85 - 265Vrms	0.8 Apeak	1250µH
		Aux	2 - 1	12	7 - 14 Vdc	0.1 Adc	
		S1	9 - 10	6	3.3 - 7 Vdc	3 Adc	
		S2	7 - 8	14	8 - 16.5 Vdc	1.4 Adc	
74021	18 w	Pri	4 - 6	108	85 - 265Vrms	1.1 Apeak	900µH
		Aux	2 - 1	12	7 - 14 Vdc	0.1 Adc	
		S1	9 - 10	6	3.3 - 7 Vdc	3 Adc	
		S2	7 - 8	14	8 - 16.5 Vdc	1.4 Adc	

Examples of application with Integrated Circuits :

MYRRA P / N	Control IC Manufacturer	Input voltage	Power	Frequency
74020	Power Integrations	85 - 265Vrms	15w	132kHz
	Power Integrations	185 - 265Vrms	18w	132kHz
	Power Integrations	85 - 265Vrms	12w	132kHz
	ST Microelectronics	85 - 265Vrms	10w	100kHz
	ST Microelectronics	185 - 265Vrms	12w	100kHz
	ST Microelectronics	185 - 265Vrms	16w	100kHz
	Motorola	185 - 265Vrms	16w	100kHz
	Infineon	185 - 265Vrms	16w	100kHz
74021	ST Microelectronics	85 - 265Vrms	13w	70kHz
	Motorola	85 - 265Vrms	13w	100kHz
	Infineon	92 - 265Vrms	10w	100kHz



- Primary / Secondary Insulation  $\geq 4000V$
- Primary / Auxiliary Insulation  $\geq 1500V$
- Creepage distance Primary / Secondary  $\geq 6mm$
- Ambient temperature  $< 60^{\circ}C$
- Construction conforms to IEC950, IEC335, IEC61558-2-16 for reinforced insulation
- Exclusively uses UL94-V0 listed materials



HIGH FREQUENCY FERRITE  
POWER FERRITE TRANSFORMERS

MYRRA P / N	Output Power maximum	Windings					
			Pins	Turns	Voltage	Current maximum	Inductance (+/-10%)
74023	16 w	Pri	9 – 10	120	85 - 265Vrms	0.85 Apeak	1250µH
		Aux	8 – 7	17	15 Vdc	0.2 Adc	
		S1	5 – 6	4	3.3 Vdc	S1 + S2 : 7 Adc	
		S2	4 – 6	6	5 Vdc	S1 + S2 : 7 Adc	
		S3	3 – 6	14	12 Vdc	0.8 Adc	
		S4	2 – 6	20	18 Vdc	0.8 Adc	
		S5	1 – 6	33	30 Vdc	0.2 Adc	

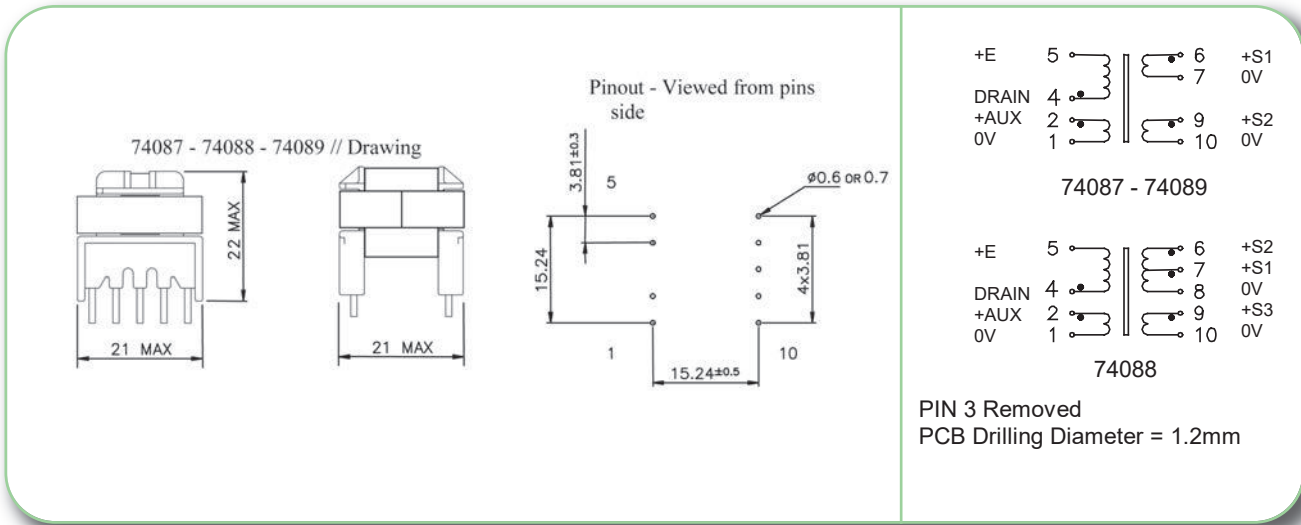
Examples of application with Integrated Circuits :

MYRRA P / N	Control IC Manufacturer	Input voltage	Power	Frequency
74023	Power Integrations	185 - 265Vrms	16w	132kHz
	Power Integrations	85 - 265Vrms	12w	132kHz





- Primary / Secondary Insulation  $\geq 4000V$  • Primary / Auxiliary Insulation  $\geq 1500V$
- Creepage distance Primary / Secondary  $\geq 8mm$
- Ambient temperature  $< 50^{\circ}C$
- Construction conforms to IEC950, IEC335, IEC61558-2-16 for reinforced insulation
- Exclusively uses UL94-V0 listed materials



MYRRA P/N	Output Power maximum	Windings					
			Pins	Turns	Voltage	Current maximum	Inductance (+/-10%)
74087	24 w	Pri	4-5	86	85 - 265Vrms	1.0 Apeak	1000µH
		Aux	2-1	12	11 - 18 Vdc	0.3 Adc	
		S1	6-7	10	9 - 15 Vdc	1.5 Adc	
		S2	9-10	10	9 - 15 Vdc	1.5 Adc	
74088	20 w	Pri	4-5	80	85 - 265Vrms	0.9 Apeak	1100µH
		Aux	2-1	17	15 Vdc	0.3 Adc	
		S1	7-8	4	3.3 Vdc	S1 + S2 : 7 Adc	
		S2	6-8	6	5 Vdc	S1 + S2 : 7 Adc	
		S3	9-10	14	12 Vdc	1.3 Adc	
74089	20 w	Pri	4-5	86	85 - 265Vrms	0.85 Apeak	1300µH
		Aux	2-1	12	7 - 18 Vdc	0.3 Adc	
		S1	6-7	5	3-7.5 Vdc	2.0 Adc	
		S2	9-10	5	3-7.5 Vdc	2.0 Adc	

Examples of application with Integrated Circuits :

MYRRA P/N	Control IC Manufacturer	Input voltage	Power	Frequency
74087	Power Integrations	185 - 265Vrms	24w	132kHz
	Power Integrations	85 - 265Vrms	15w	132kHz
74088	Power Integrations	185 - 265Vrms	20w	132kHz
	Power Integrations	85 - 265Vrms	12w	132kHz
74089	Power Integrations	185 - 265Vrms	20w	132kHz
	Power Integrations	85 - 265Vrms	14w	132kHz
	Power Integrations	185 - 265Vrms	17w	< 120kHz





- Primary / Secondary Insulation  $\geq 4000V$
- Primary / Auxiliary Insulation  $\geq 1500V$
- Creepage distance Primary / Secondary  $\geq 8mm$
- Ambient temperature  $< 50^{\circ}C$
- Construction conforms to IEC950, IEC335, IEC61558-2-16 for reinforced insulation
- Exclusively uses UL94-V0 listed materials

Top View Dimensions: 37 Max, 27 MAX

Bottom View Dimensions: 6x5, 5±0.2, 1, 7, 8, 25.5±0.5, 14, Ø0.8

Bottom View (Pin side)

Winding Diagram Connections:

- +E: 7
- DRAIN: 5
- +AUX: 3
- 0V: 2
- +S4: 8
- +S3: 9
- 0V: 10
- +S2: 11
- +S1: 12
- 0V: 13

PIN 4 Removed  
PCB Drilling Diameter = 1.3mm

MYRRA P / N	Output Power maximum	Windings					
			Pins	Turns	Voltage	Current maximum	Inductance (+/-10%)
74040	60 w	Pri	5 - 7	50	85 - 265Vrms	3.0 Apeak	500µH
		Aux	3 - 2	6	7 - 14.5 Vdc	0.5 Adc	
		S1	12 - 13	3	3.3 - 7	4 Adc	
		S2	11 - 13	7	8 - 16.5 Vdc	2.5 Adc	
		S3	9 - 10	3	3.3 - 7	4 Adc	
		S4	8 - 10	7	8 - 16.5 Vdc	2.5 Adc	

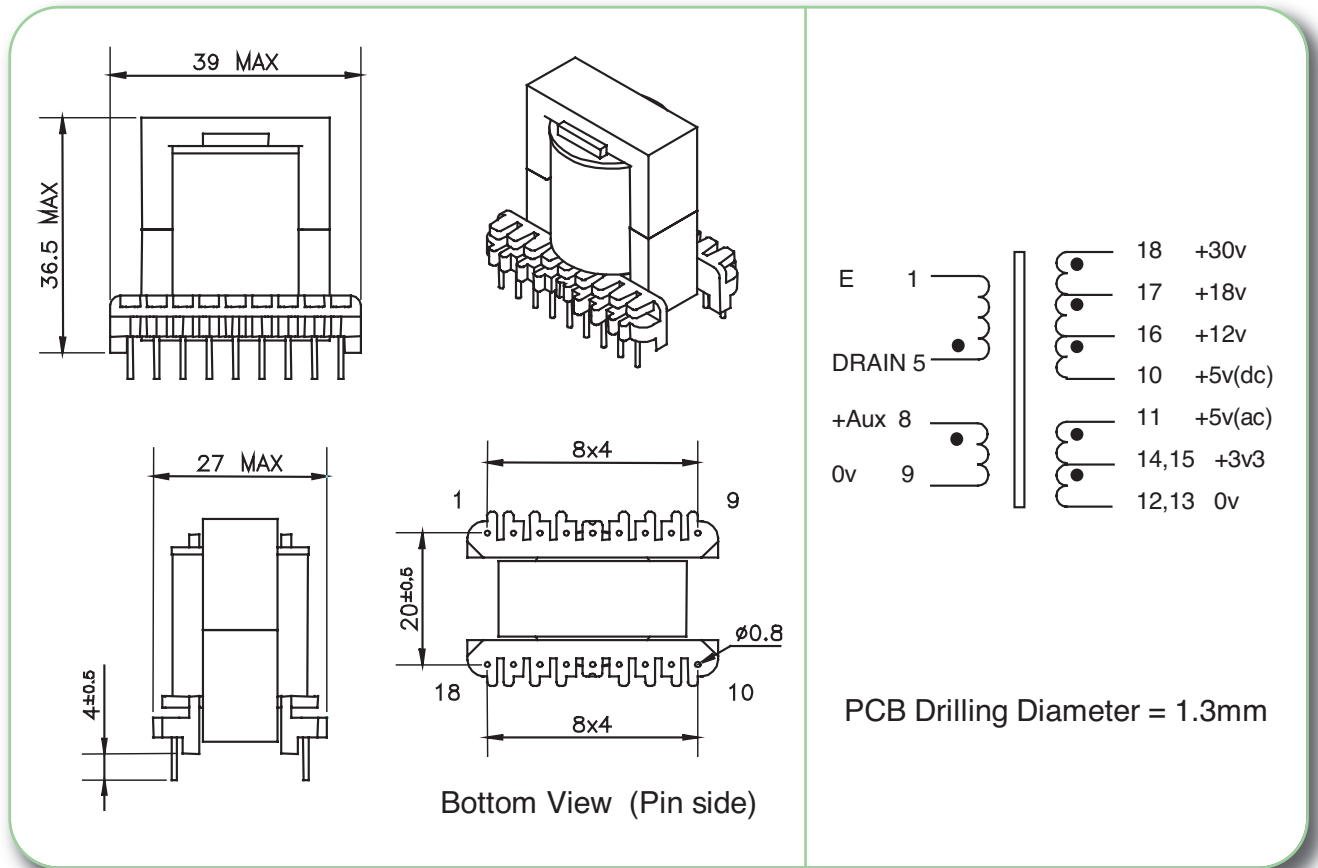
Note : S1 / S3 or S2 / S4 can be connected in series or in parallel

Examples of application with Integrated Circuits :

MYRRA P / N	Control IC Manufacturer	Input voltage	Power	Frequency
74040	Power Integrations	185 - 265Vrms	60w	66 or 132kHz
	Power Integrations	85 - 265Vrms	45w	66 or 132kHz
	ST Microelectronics	85 - 265Vrms	35w	100kHz
	ST Microelectronics	185 - 265Vrms	45w	100kHz
	Motorola	85 - 265Vrms	35w	100kHz
	Motorola	185 - 265Vrms	45w	100kHz
	Infineon	92 - 265Vrms	35w	100kHz
	Infineon	185 - 265Vrms	45w	100kHz



- Primary / Secondary Insulation  $\geq 4000V$
- Primary / Auxiliary Insulation  $\geq 1500V$
- Creepage distance Primary / Secondary  $\geq 6mm$
- Ambient temperature  $< 50^{\circ}C$
- Construction conforms to IEC950, IEC335, IEC61558-2-16 for reinforced insulation
- Exclusively uses UL94-V0 listed materials



HIGH FREQUENCY FERRITE  
POWER FERRITE TRANSFORMERS

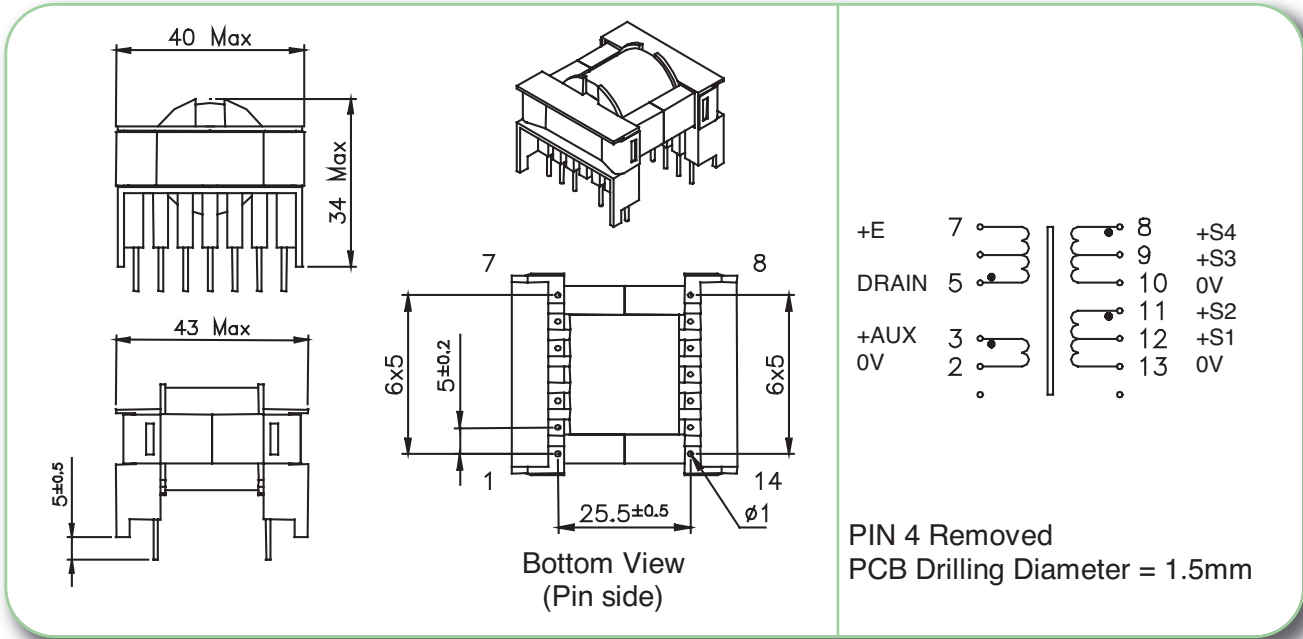
MYRRA P / N	Output Power maximum	Windings					
			Pins	Turns	Voltage	Current maximum	Inductance (+/-10%)
74043	60w	Pri	5-1	45	85 - 265Vrms	3 Apeak	500µH
		Aux	8-9	7	15 Vdc	0.5 Adc	
		S1	14+15 / 12+13	2	3.3 Vdc	S1+S2 : 7 Adc	
		S2	11 / 12+13	3	5 Vdc	S1+S2 : 7 Adc	
		S3	16-10	4	12 Vdc	2 Adc	
		S4	17-10	7	18 Vdc	2 Adc	
		S5	18-10	13	30 Vdc	0.5 Adc	

Examples of application with Integrated Circuits :

MYRRA P / N	Control IC Manufacturer	Input voltage	Power	Frequency
74043	Power Integrations	185 - 265Vrms	60w	66 or 132kHz
	Power Integrations	85 - 265Vrms	45w	66 or 132kHz



- Primary / Secondary Insulation  $\geq 4000V$
- Primary / Auxiliary Insulation  $\geq 1500V$
- Creepage distance Primary / Secondary  $\geq 8mm$
- Ambient temperature  $< 50^{\circ}C$
- Construction conforms to IEC950, IEC335, IEC61558-2-16 for reinforced insulation
- Exclusively uses UL94-V0 listed materials



MYRRA P / N	Output Power maximum	Windings					
			Pins	Turns	Voltage	Current maximum	Inductance (+/-10%)
74050	90 w	Pri	5 - 7	36	85 - 265Vrms	2.8 Apeak	500µH
		Aux	3 - 2	4	7 - 14 Vdc	0.5 Adc	
		S1	12 - 13	2	3.3 - 6.5	5 Adc	
		S2	11 - 13	5	8.5 - 17 Vdc	3 Adc	
		S3	9 - 10	2	3.3 - 6.5	5 Adc	
		S4	8 - 10	5	8.5 - 17 Vdc	3 Adc	

Note : S1 / S3 or S2 / S4 can be connected in series or in parallel

Examples of application with Integrated Circuits :

MYRRA P / N	Control IC Manufacturer	Input voltage	Power	Frequency
74050	Power Integrations	185 - 265Vrms	90w	132kHz
	Power Integrations	85 - 265Vrms	60w	66 or 132kHz
	ST Microelectronics	185 - 265Vrms	80w	70kHz
	ST Microelectronics	85 - 265Vrms	60w	70kHz
	Motorola	185 - 265Vrms	80w	100kHz
	Motorola	85 - 265Vrms	60w	100kHz
	Infineon	185 - 265Vrms	80w	100kHz
	Infineon	85 - 265Vrms	60w	100kHz



- Primary / Secondary Insulation  $\geq 4000V$
- Primary / Auxiliary Insulation  $\geq 1500V$
- Creepage distance Primary / Secondary  $\geq 8mm$
- Ambient temperature  $< 50^{\circ}C$
- Construction conforms to IEC950, IEC335, IEC61558-2-16 for reinforced insulation
- Exclusively uses UL94-V0 listed materials

Bottom View  
(Pin side)

PIN 4 Removed  
PCB Drilling Diameter = 1.5mm

MYRRA P / N	Output Power maximum	Windings					
			Pins	Turns	Voltage	Current maximum	Inductance (+/-10%)
74060	140 w	Pri	5 – 7	36	85 - 265Vrms	4 Apeak	440µH
		Aux	3 – 2	4	7 – 14 Vdc	0.5 Adc	
		S1	14 – 15	2	3.3 – 6.5	5 Adc	
		S2	13 – 15	5	8.5 – 17 Vdc	5 Adc	
		S3	11 – 12	2	3.3 – 6.5	5 Adc	
		S4	10 – 12	5	8.5 – 17 Vdc	5 Adc	

Note : S1 / S3 or S2 / S4 can be connected in series or in parallel

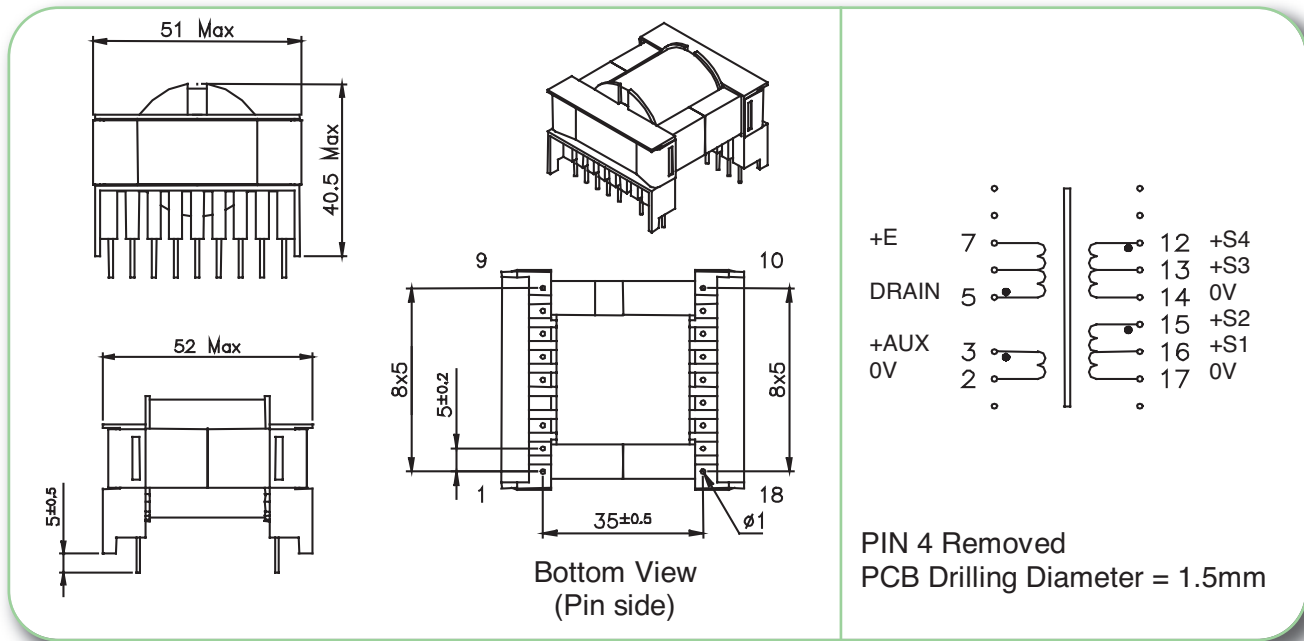
Examples of application with Integrated Circuits :

MYRRA P / N	Control IC Manufacturer	Input voltage	Power	Frequency
74060	Power Integrations	185 - 265Vrms	140w	132kHz
	Power Integrations	85 - 265Vrms	90w	66 or 132kHz
	ST Microelectronics	85 - 265Vrms	70w	70kHz
	ST Microelectronics	185 - 265Vrms	120w	100kHz
	Motorola	85 - 265Vrms	70w	100kHz
	Motorola	185 - 265Vrms	120w	100kHz
	Infineon	85 - 265Vrms	70w	100kHz
	Infineon	185 - 265Vrms	120w	100kHz
	Fairchild	85 - 265Vrms	70w	100kHz
Fairchild	185 - 265Vrms	120w	100kHz	

HIGH FREQUENCY FERRITE  
POWER FERRITE TRANSFORMERS



- Primary / Secondary Insulation  $\geq 4000V$
- Primary / Auxiliary Insulation  $\geq 1500V$
- Creepage distance Primary / Secondary  $\geq 8mm$
- Ambient temperature  $< 50^{\circ}C$
- Construction conforms to IEC950, IEC335, IEC61558-2-16 for reinforced insulation
- Exclusively uses UL94-V0 listed materials



MYRRA P / N	Output Power maximum	Windings					
			Pins	Turns	Voltage	Current maximum	Inductance (+/-10%)
74070	180 w	Pri	5 – 7	38	85 - 265Vrms	8 Apeak	300µH
		Aux	3 – 2	4	7 – 14 Vdc	0.5 Adc	
		S1	16 – 17	2	3.3 – 6.5	6 Adc	
		S2	15 – 17	5	8.5 – 17 Vdc	5 Adc	
		S3	13 – 14	2	3.3 – 6.5	6 Adc	
		S4	12 – 14	5	8.5 – 17 Vdc	5 Adc	

Note : S1 / S3 or S2 / S4 can be connected in series or in parallel

Examples of application with Integrated Circuits :

MYRRA P / N	Control IC Manufacturer	Input voltage	Power	Frequency
74070	Power Integrations	185 - 265Vrms	180w	66 or 132kHz
	Power Integrations	85 - 265Vrms	120w	66kHz
	Infineon	185 - 265Vrms	160w	100kHz
	Fairchild	185 - 265Vrms	160w	100kHz
	Philips	185 - 265Vrms	120w	50kHz

HIGH FREQUENCY FERRITE  
POWER FERRITE TRANSFORMERS



1W

2W

3W

4W

5W

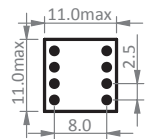
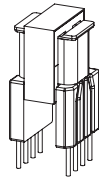
6W

8W

10W

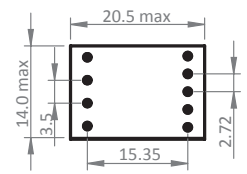
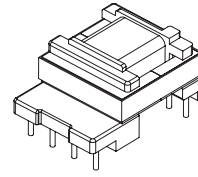
15W

20W



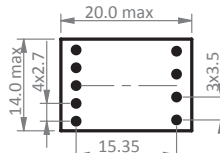
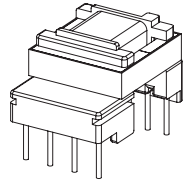
Height : 19.0mm max

**E 10**  
reinforced insulation  
creepage distances: 6mm



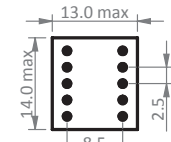
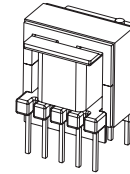
Height : 11mm max

**EF 12.6**  
reinforced insulation  
creepage distances: 6mm



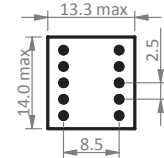
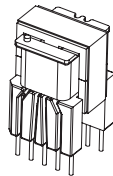
Height : 12.5mm max

**EF 12.6**  
reinforced insulation  
creepage distances: 6mm



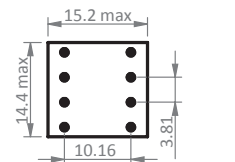
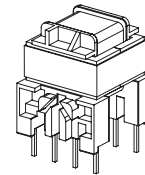
Height : 14.8mm max

**E 13**  
basic insulation



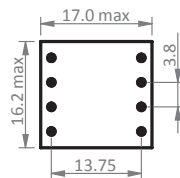
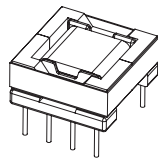
Height : 19.2mm max

**E 13**  
reinforced insulation  
creepage distances: 6mm



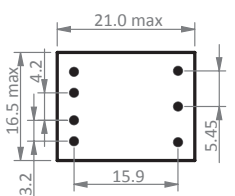
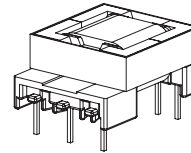
Height : 17.7mm max

**E 13**  
reinforced insulation  
creepage distances: 6mm



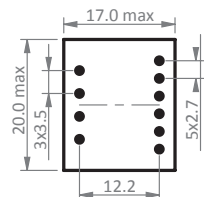
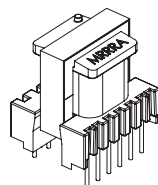
Height : 11mm max

**EFD 15**  
basic insulation



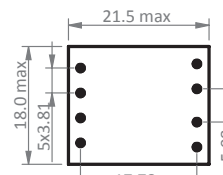
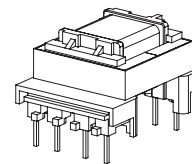
Height : 10.0mm max

**EFD 15**  
reinforced insulation  
creepage distances: 6mm



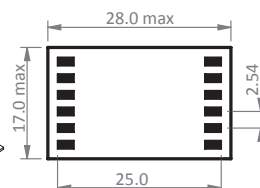
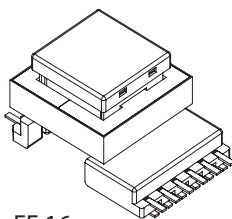
Height : 21.0 mm max

**E 16**  
reinforced insulation  
creepage distances: 6mm



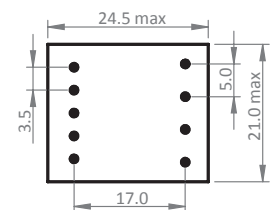
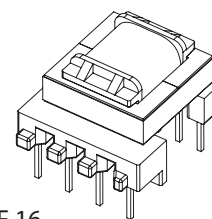
Height : 14.0mm max

**EF 16**  
reinforced insulation  
creepage distances: 6mm



Height : 14.7mm max

**EF 16**  
reinforced insulation  
creepage distances: 6mm



Height : 17mm max

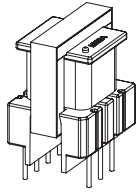
**EF 16**  
reinforced insulation  
creepage distances: 6mm

HIGH FREQUENCY FERRITE  
POWER FERRITE TRANSFORMERS

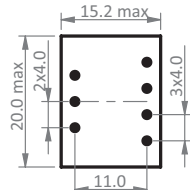




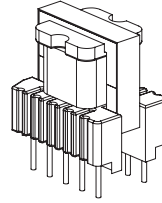
20W



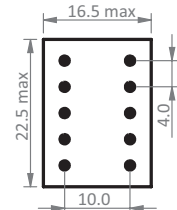
**E 19**  
reinforced insulation  
creepage distances: 6mm



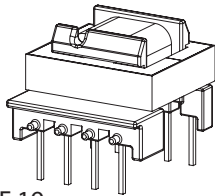
Height : 23.5mm max



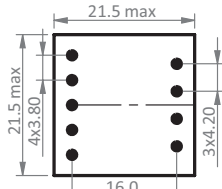
**E 19**  
reinforced insulation  
creepage distances: 6mm



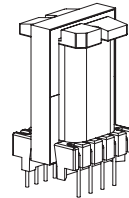
Height : 23.5mm max



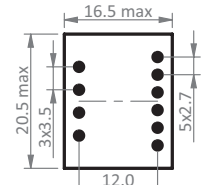
**E 19**  
reinforced insulation  
creepage distances: 6mm



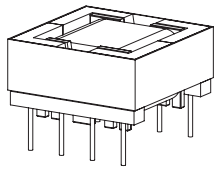
Height : 15.0mm max



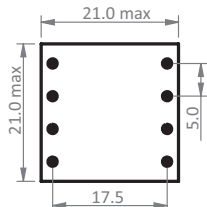
**EL 19**  
reinforced insulation  
creepage distances: 6mm



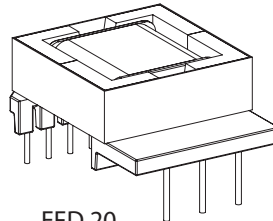
Height : 31.0mm max



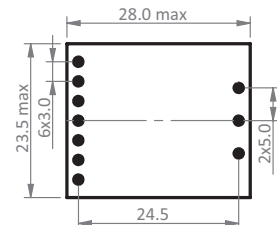
**EFD 20**  
basic insulation



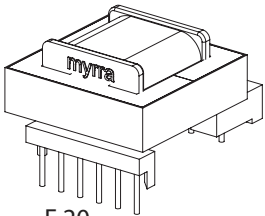
Height : 11.0mm max



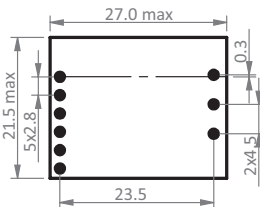
**EFD 20**  
reinforced insulation  
creepage distances: 6mm



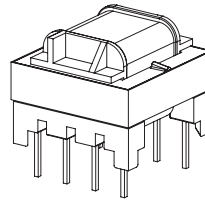
Height : 11.5mm max



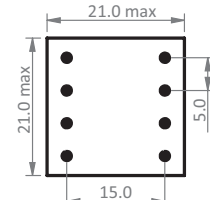
**E 20**  
reinforced insulation  
creepage distances: 6mm



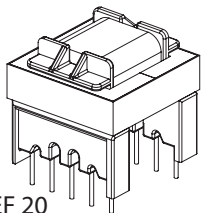
Height : 13.0mm max



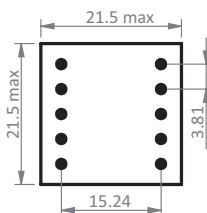
**EF 20**  
basic insulation



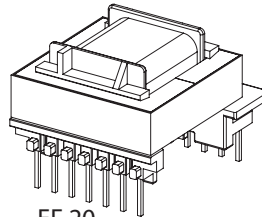
Height : 16.0mm max



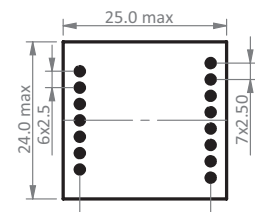
**EF 20**  
reinforced insulation  
creepage distances: 6mm



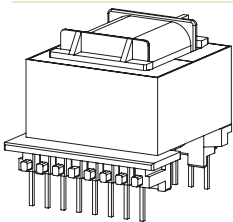
Height : 21.0mm max



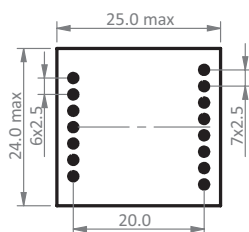
**EF 20**  
reinforced insulation  
creepage distances: 8mm



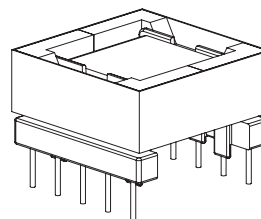
Height : 16.0mm max



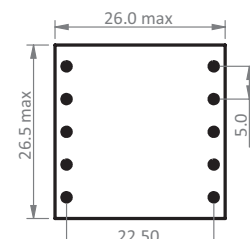
**EF 20/11**  
reinforced insulation  
creepage distances: 6mm



Height : 22.0mm max



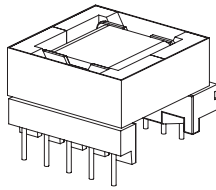
**EFD 25**  
basic insulation



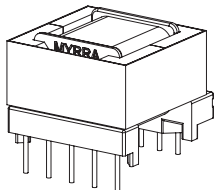
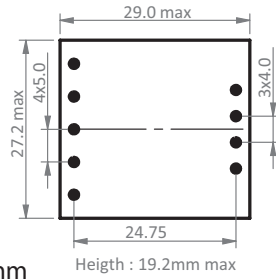
Height : 16.0mm max

HIGH FREQUENCY FERRITE  
POWER FERRITE TRANSFORMERS

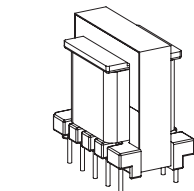
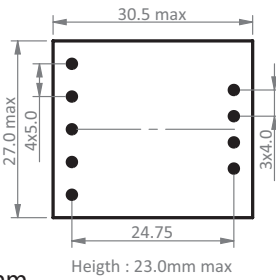
\*non-exhaustive list



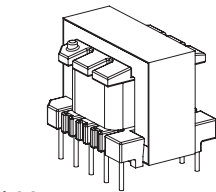
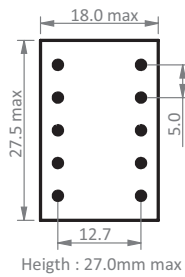
**EFD 25**  
reinforced insulation  
creepage distances: 6mm



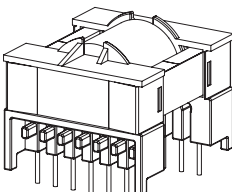
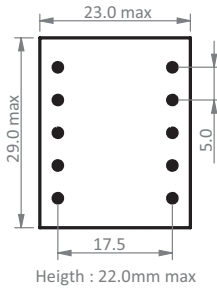
**EVD 25**  
reinforced insulation  
creepage distances: 6mm



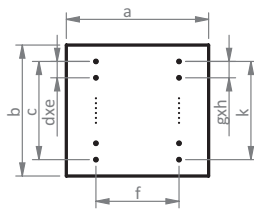
**EF 25**  
reinforced insulation  
creepage distances: 6mm



**EI 28**  
reinforced insulation  
creepage distances: 6mm



**ETD Horizontal**  
reinforced insulation  
creepage distances: 6mm



unit:mm

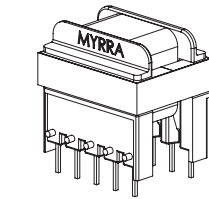
Size	Pin Qty.	a (max)	b (max)	c	dx	e	gx	h	k (max)	height (max)
ETD29	7+7	36.5	36.5	30.48	6x5.08	25.4	6x5.08	30.48	25.5	
ETD34	7+7	43.0	41.0	30.0	6x5.0	25.5	6x5.0	30.0	34.5	
ETD39	8+8	45.0	45.0	35.0	7x5.0	30.2	7x5.0	35.0	34.0	
ETD44	9+9	52.5	50.0	40.0	8x5.0	35.56	8x5.0	40.0	40.0	
ETD49	10+10	58.0	57.0	45.0	9x5.0	40.8	9x5.0	45.0	43.5	

50W

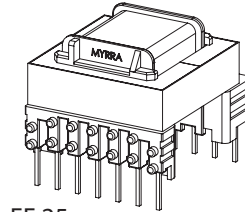
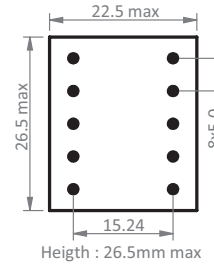
100W

200W

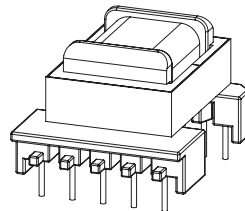
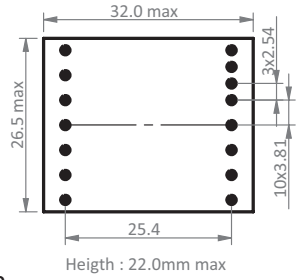
500W



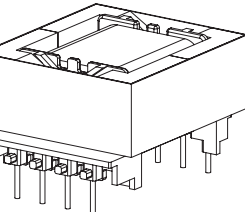
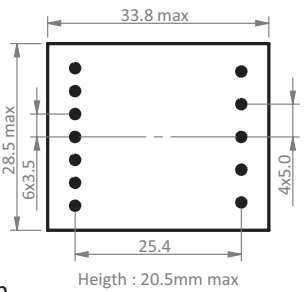
**E 25**  
reinforced insulation  
creepage distances: 8mm



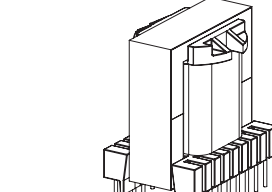
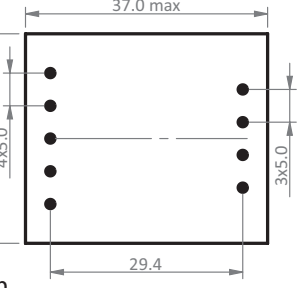
**EF 25**  
reinforced insulation  
creepage distances: 8mm



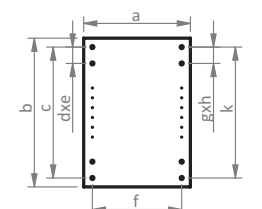
**EF 25**  
reinforced insulation  
creepage distances: 6mm



**EVD 30**  
reinforced insulation  
creepage distances: 6mm



**ETD Vertical**  
reinforced insulation  
creepage distances: 6mm



unit:mm

Size	Pin Qty.	a (max)	b (max)	c	dx	e	gx	h	k (max)	height (max)
ETD29	7+7	25.0	35.5	30.48	6x5.08	20.32	6x5.08	30.48	41.5	
ETD34	7+7	28.0	35.5	30.48	6x5.08	22.85	6x5.08	30.48	35.5	
ETD39	8+8	31.5	41.0	35.0	7x5.0	25.4	7x5.0	35.0	47.0	
ETD44	9+9	33.5	46.0	40.0	8x5.0	27.5	8x5.0	40.0	51.0	
ETD49	11+11	50.0	68.2	50.8	10x5.08	33.02	10x5.08	50.8	72.5	

HIGH FREQUENCY FERRITE

POWER FERRITE TRANSFORMERS

\*non-exhaustive list



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**MYRRA SAS**  
**2 Bd de la Haye**  
**Parc Gustave Eiffel**  
**77600 Bussy St Georges**  
**France**

**MYRRA Deutschland GmbH**  
**Marie-Curie-Straße 4/1**  
**71083 Herrenberg**  
**Germany**