



GATE DRIVE TRANSFORMERS

- * Designs for Gate/Base/Flyback/Push-pull
- * High Isolation Voltages
- * Operation frequency from 20kHz

- * Industry Standard Packages
- * Multiple Configurations

ELECTRICAL SPECIFICATIONS AT 25 °C - OPERATING TEMPERATURE RANGE -40 °C TO +80 °C

PART NUMBER	URNS RATIO (Pri:Sec ± 5%)	PRIMARY OCL (Ω H)	LEAKAGE IND (Ω H tpy.)	PRI DCR (Ω MAX.)	SEC DCR (Ω MAX.)	PRI/SEC HI-POT VDC	PACKAGE/ SCHEMATIC
PMGD-02	1 : 1 : 1	530	1.5	-	-	1500	EP13/9
PMGD-03	1 : 1	800	2.0	-	-	1500	EP7/3
PMGD-04	1 : 1 : 1	24500	20.0	-	-	1000	EP10/10
PMGD-05	1 : 0.67	6200	15.0	-	-	1000	EP10/11
PMGD-06	1 : 1	6200	15.0	-	-	2800	EP10/11
PMGD-07	1 : 2 : 2	2350	2.0	-	-	2100	EP13/12
PMGD-08	1 : 1.25 : 1.25	575	1.0	-	-	4200	EP13/13
PMGD-09	1 : 2 : 2	2350	2.0	-	-	4200	EP13/13
PMGD-10	1 : 2 : 2	8350	25.0	-	-	3500	EP13/13
PMGD-50	1CT : 1CT	800 MIN	3.00	3.50	3.50	1250	EP5G/1
PMGD-51	1CT : 2CT	390 MIN	1.50	2.25	4.50	1250	EP5G/1
PMGD-52	1CT : 2.5CT	390 MIN	1.50	2.25	6.00	1250	EP5G/1
PMGD-53	1CT : 3CT	2000 MIN	1.20	3.00	25.0	1250	EP5G/19
PMGD-54	1 : 1CT	2000 MIN	1.20	2.75	2.75	1250	EP5G/2
PMGD-55	1 : 2CT	17.2 ± 20%	1.00	1.25	3.00	1250	EP5G/2
PMGD-56	1 : 12.04	3.7 ± 20%	0.275	0.90	12.25	550	EP5G/3
PMGD-57	1 : 3.0	9.88 ± 20%	0.500	1.00	3.25	1250	EP5G/4
PMGD-58	1 : 1 : 1	330 MIN	0.500	2.0	2.0	1500	EP5G/7
PMGD-59	1 : 1	330 MIN	1.0	1.0	1.0	1500	EP5G/8
PMGD-60	1CT : 5CT	160 MIN N/A	1.1	9.6		1800	A/5
PMGD-61	1CT : 3CT	180 MIN N/A	1.1	8.0		1800	A/5
PMGD-62	1 : 5	180 MIN N/A	1.1	8.3		1800	A/6
PMGD-63	1 : 1	700 ± 20%	3.0	2.0	2.0	1250	EP5G/3
PMGD-64	1 : 1.0	785 MIN	0.500	1.00	0.6	0.6	EP5G/4

Specifications subject to change without notice.

pmgd05/20

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GATE DRIVE TRANSFORMERS

(TOROID)

- * Insulation Resistance - 100MOhm minimum
- * Temperature rise - 40°C
- * Current Rating - 0.3 Amps

ELECTRICAL SPECIFICATIONS AT 25°C - OPERATING TEMPERATURE RANGE -40°C TO +80°C

PART NUMBER	TURNS (N1:N2:N3)	N1 INDUCTANCE	N3 LEAKAGE IND	N1 DCR	N3 DCR	N3-N1/N2 HIPOT	N1-N2 HIPOT	PACKAGE/ SCHEMATIC
		(mH min.) (10kHz, 50mV)	(mH Max.)	(μ W MAX.)	(μ W MAX.)	(Vr ms)	(Vr ms)	
PMGD-111	8:08:12	0.14	0.5	0.06	0.097	4200	500	B / 15
PMGD-112	10:10	0.22	0.5	0.072	0.074	-	4200	B / 16
PMGD-113	10:10:10	0.22	0.5	0.072	0.074	4200	500	B / 15
PMGD-114	12:12:10	0.31	0.5	0.077	0.074	4200	500	B / 15
PMGD-115	14:14:10	0.42	0.5	0.09	0.074	4200	500	B / 15
PMGD-116	10:15	0.22	0.5	0.072	0.1	-	4200	B / 16
PMGD-117	15:15:10	0.47	0.5	0.1	0.074	4200	500	B / 15
PMGD-118	20:20:10	0.83	0.5	0.138	0.074	4200	500	B / 15
PMGD-119	20:20:20	0.83	0.5	0.156	0.156	4200	500	B / 15



SMT GATE DRIVE TRANSFORMERS

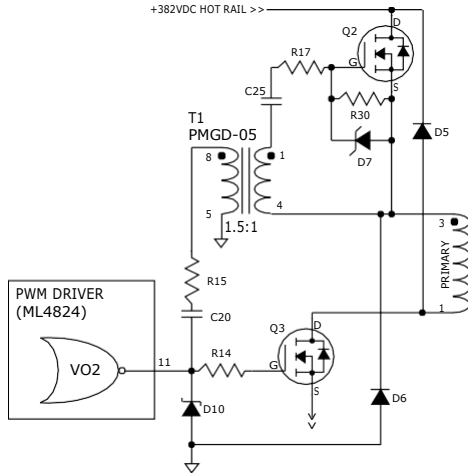
- * Basic Insulation (1.4mm creepage and clearance between Primary and Secondary)
- * Operating Frequency at 50kHz minimum
- * RoHS compliant

ELECTRICAL SPECIFICATIONS AT 25 °C - OPERATING TEMPERATURE RANGE -40 °C TO +130 °C

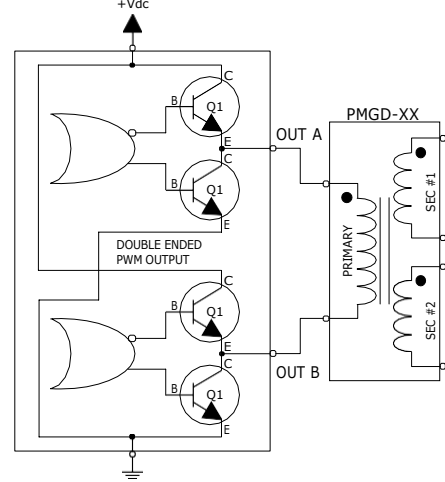
PART NUMBER	TURNS (PRI:SEC1:SEC2)	PRIMARY INDUCTANCE (uH MIN.)	LEAKAGE INDUCTANCE (uH MAX.)	PRIMARY DCR (Ω MAX.)	SECONDARY DCR (Ω MAX.)	HIPOT (Vrms)	Vusec MAX.	PACKAGE/ SCHEMATIC
PMGD-130	1 : 1	1490	0.80	1.15	1.15	1500	50	C / 18
PMGD-131	2 : 1 : 1	1425	0.80	1.15	0.60	1500	50	C / 17
PMGD-132	2.5 : 1 : 1	1485	0.80	1.15	0.45	1500	45	C / 17

TYPICAL APPLICATIONS

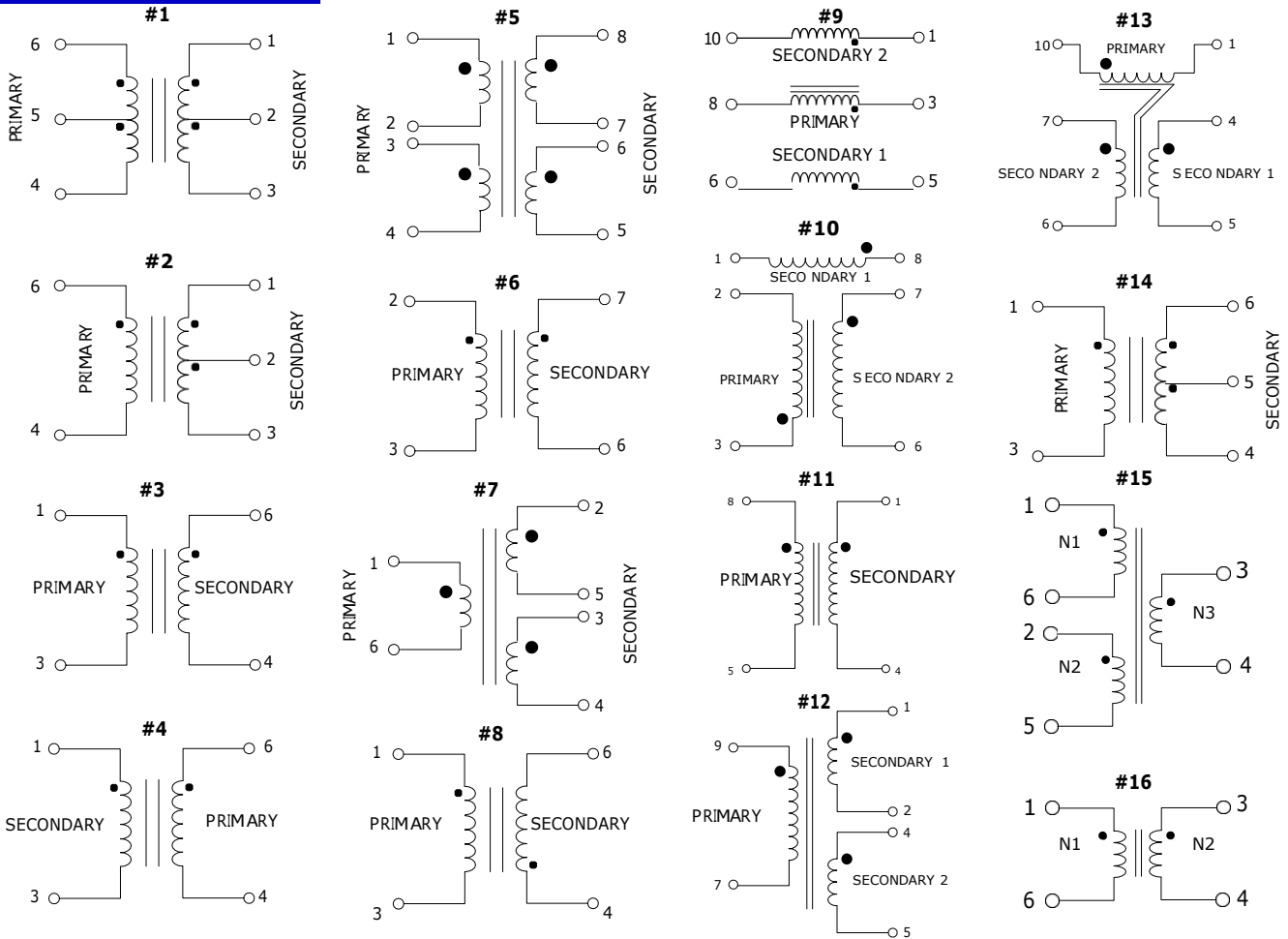
TYPICAL SINGLE ENDED APPLICATION CIRCUIT



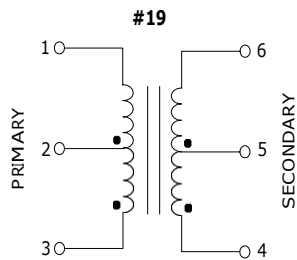
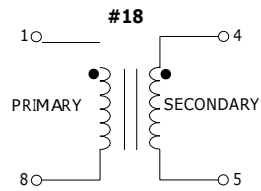
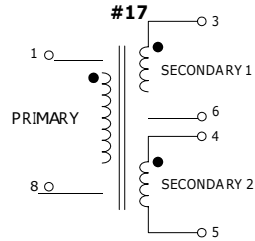
TYPICAL DOUBLE ENDED APPLICATION CIRCUIT



SCHEMATICS

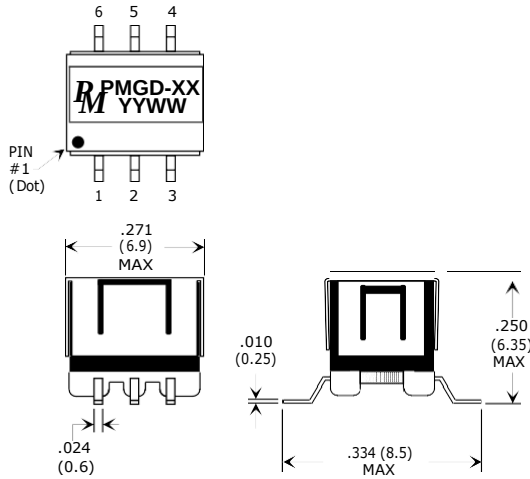


SCHEMATICS

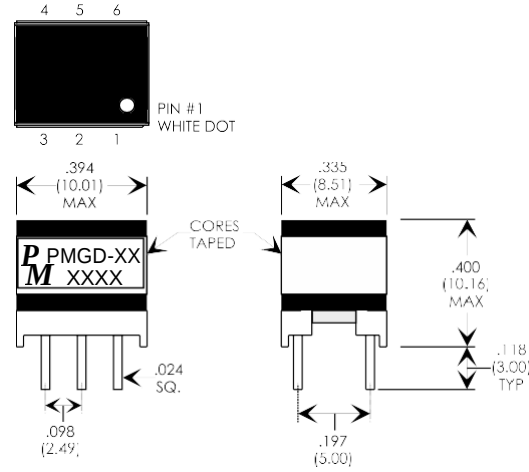


GATE DRIVE TRANSFORMERS

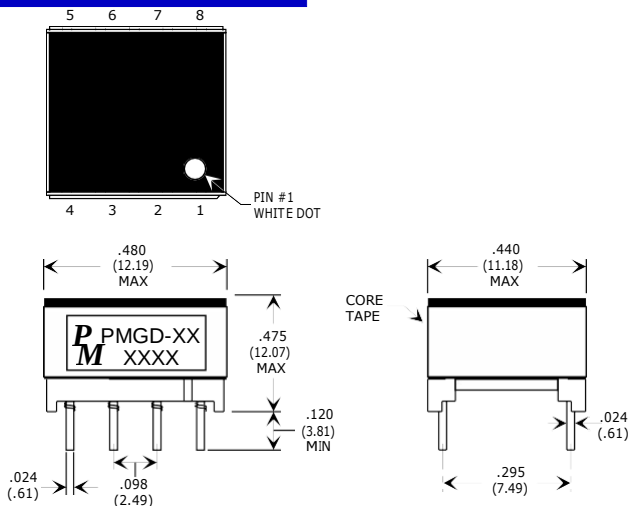
EP5G MECHANICAL



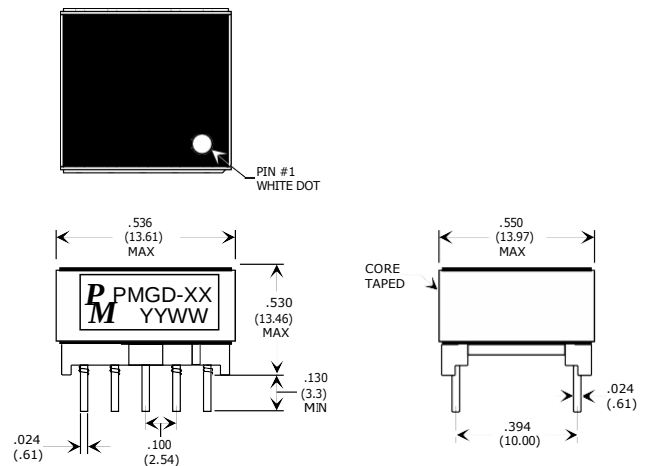
EP7 MECHANICALS



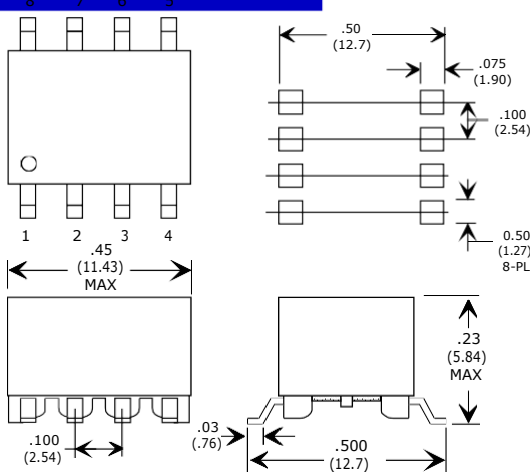
EP10 MECHANICAL



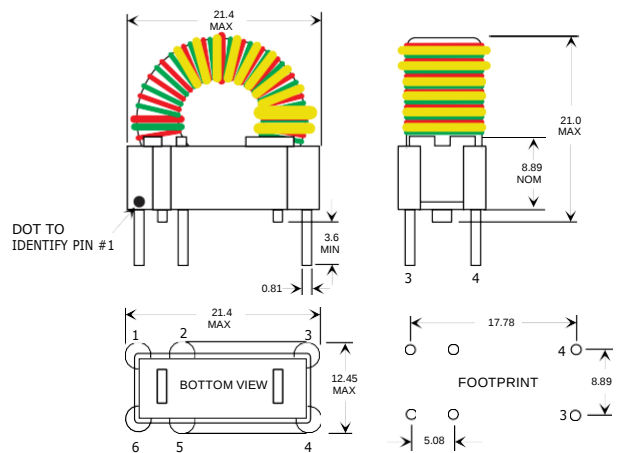
EP13 MECHANICAL



A MECHANICAL



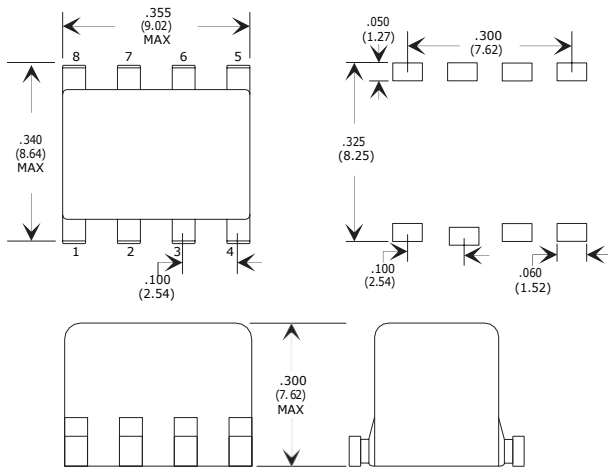
B MECHANICAL



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CMECHANICAL





PREMIER

MIDCOM

PMGD-50

31094R

PMGD-51

31095R

PMGD-52

31096R

PMGD-53

30902R

PMGD-54

31204R

PMGD-55

31098R

PMGD-56

31032R

PMGD-57

31099R

PMGD-60

S5499D COILCRAFT

PMGD-62

S6650D COILCRAFT

PMGD-130

PA-2007 PULSE

PM-GD-131

PA2008 PULSE

PMGD-132

PA2009 PULSE

