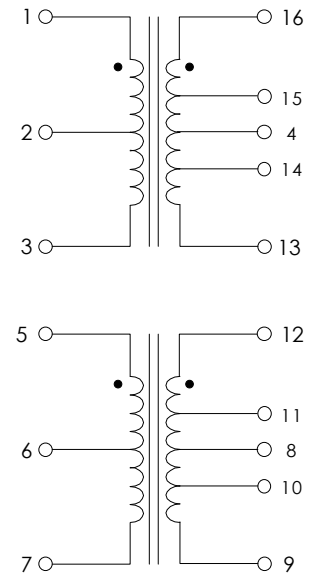


**TABLE 1: ELECTRICAL SPECIFICATIONS AT 25 °C**

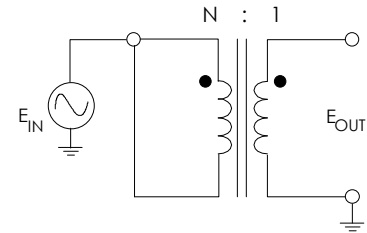
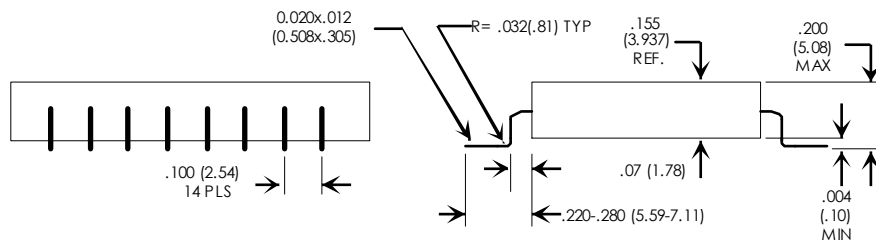
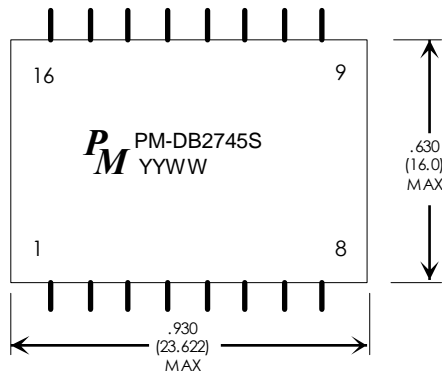
PARAMETER	SPEC LIMITS			UNITS
	MIN.	TYP.	MAX.	
TURNS RATIO'S: FREQUENCY: 10 KHZ VOLTAGE: 1.0 VRMS (1-3) : (16-13) (5-7) : (12-9) (1-3) : (15-14) (5-7) : (11-10)	-----	1 : 2.50	-----	± 3%
	-----	1 : 2.50	-----	± 3%
	-----	1 : 1.79	-----	± 3%
	-----	1 : 1.79	-----	± 3%
DC RESISTANCE				
1-3, 5-7	-----	-----	1.0	Ω
16-13, 12-9	-----	-----	3.5	Ω
IMPEDANCE:16-13, 12-9	4000	-----	-----	Ω
FREQUENCY: 75 KHZ TO 1.0 MHZ				
COMMON MODE REJECTION	45	-----	-----	dB
HI-POT:				
BETWEEN 1 to 16 & 5 to 12	100	-----	-----	VRMS
INSULATION RESISTANCE (250VDC)	1000	-----	-----	MΩ
BETWEEN GENERAL SPECIFICATION			PP	

**FIGURE 1: SCHEMATIC DIAGRAM**



**NOTE1:**  
MEET MIL-STD-1553 AND MIL-T-21038 ELECTRICAL CHARACTERISTICS.

**FIGURE 2: PHYSICAL DIMENSIONS IN INCHES (mm)**



$E_{IN} = 10 \text{ Vrms AT } 1.0 \text{ MHz}$   
 $CMR = 20 \text{ LOG } \frac{E_{IN}}{E_{OUT}}$



UNLESS OTHERWISE SPECIFIED  
DIMENSIONS ARE IN INCHES  
DIMENSIONAL TOLERANCES ARE:  
DECIMALS ANGLES  
.XX ± .04 ± 0° 30'  
.XXX ± .020  
DO NOT SCALE DRAWING

TRANSFORMER CONTROL DRAWING	
PREMIER P/N: PM-DB2745S	REVISION: 02/10/17
ENGR: PETER PHAM	REF: 21038/27-25
SCALE: NONE	SHEET: 1 OF 3



**TABLE 2: GENERAL SPECIFICATIONS**

PARAMETER	VALUE	UNIT	REMARKS
Case			Flame Resistant, Diallyl Phthalate
Weight	gm	5 Max	
Terminals			Solderable
Terminal Strength	lbs	2	2 pounds applied force, Mil-Std-202, Method 211, Condition A
Dielectric Withstanding Voltage	Vrms	100	Mil-Std-202, Method 301
Insulation Resistance	MΩ	1,000	Mil-Std-202, Method 302, Condition B, At 250Vdc
Life (Expectancy "X")	Hrs	10,000 Min	Mil-Prf-21038
Pulse Width	μS	2	Mil-Prf-21038, Figure 3 & 4
Overshoot & Ringing	V	± 1 Max	Mil-Prf-21038, Figure 3 & 4
Droop	%	20%Max	Mil-Prf-21038, Figure 3 & 4
Rise Time	ns	150 Max	Mil-Prf-21038, Figure 3 & 4
Common Mode Rejection	dB	45	Mil-Prf-21038, Figure 2
Operation Temperature	°C	-55°C to +130°C	
Turns Ratio			See Table 1
DC Resistance			See Table 1
Impedance			See Table 1



UNLESS OTHERWISE SPECIFIED  
 DIMENSIONS ARE IN INCHES  
 DIMENSIONAL TOLERANCES ARE:  
 DECIMALS ANGLES  
 .XX ± .04 ± 0° 30'  
 .XXX ± .020  
 DO NOT SCALE DRAWING

TRANSFORMER CONTROL DRAWING	
PREMIER P/N: PM-DB2745S	REVISION: 02/10/17
ENGR: PETER PHAM	REF: 21038/27-25
SCALE: NONE	SHEET: 3 OF 3