

10/100 Base-TX SINGLE PORT MAGNETIC MODULES

RoHS

- * Meets all IEEE 802.3 and ANSI X3.263 standard including 350 uH OCL with 8 mADC Bias
- * Compact footprint for use in the most space restrictive applications
- * Extended Temperature Ranges:
-40°C to +85°C
-55°C to +125°C

NORMAL TEMP RANGE

ELECTRICAL SPECIFICATIONS AT 25°C - OPERATING TEMPERATURE RANGE 0°C TO +70°C

PART NUMBER	Turn Ratio		INSERTION LOSS (dB Max) 100KHz to 100MHz	Return Loss (dB TYP)			Diff. to Com Mode Rejection (dB TYP)			Crosstalk (dB TYP)			Schematic	HIPOT (Vrms)
	TX	RX		30 MHz	60 MHz	80 MHz	30 MHz	50 MHz	100 MHz	30 MHz	60 MHz	100 MHz		
PM-6101	1:1	1:1	1.1	-20	-14	-11.5	-42	-37	-33	-45	-40	-35	A	1500
PM-6102	1:1	1:1	1.1	-20	-14	-11.5	-42	-37	-33	-45	-40	-35	B	1500
PM-6103	2:1	1:1	1.1	-20	-14	-11.5	-42	-37	-33	-45	-40	-35	B	1500
PM-6104	1:1	2:1	1.1	-20	-14	-11.5	-42	-37	-33	-45	-40	-35	B	1500
PM-6105	1.41:1	1:1	1.1	-20	-14	-11.5	-42	-37	-33	-45	-40	-35	B	1500
PM-6106	1.25:1	1:1	1.1	-20	-14	-11.5	-42	-37	-33	-45	-40	-35	B	1500
PM-6107	1:1.41	1:1	1.1	-18	-12	-11.5	-42	-37	-30	-45	-40	-35	B	1500

EXTENDED TEMP RANGE

ELECTRICAL SPECIFICATIONS AT 25°C - OPERATING TEMPERATURE RANGE -40°C TO +85°C

PART NUMBER	Turn Ratio		INSERTION LOSS (dB Max) 300KHz to 100MHz	Return Loss (dB TYP)			Diff. to Com Mode Rejection (dB TYP)			Crosstalk (dB TYP)			Schematic	HIPOT (Vrms)
	TX	RX		30 MHz	60 MHz	80 MHz	30 MHz	50 MHz	100 MHz	30 MHz	60 MHz	100 MHz		
PM-6101E	1:1	1:1	1.1	-20	-14	-11.5	-42	-37	-33	-45	-40	-35	A	1500
PM-6102E	1:1	1:1	1.1	-20	-14	-11.5	-42	-37	-33	-45	-40	-35	B	1500
PM-6103E	2:1	1:1	1.1	-20	-14	-11.5	-42	-37	-33	-45	-40	-35	B	1500
PM-6104E	1:1	2:1	1.1	-20	-14	-11.5	-42	-37	-33	-45	-40	-35	B	1500
PM-6105E	1.41:1	1:1	1.1	-20	-14	-11.5	-42	-37	-33	-45	-40	-35	B	1500
PM-6106E	1.25:1	1:1	1.1	-20	-14	-11.5	-42	-37	-33	-45	-40	-35	B	1500
PM-6107E	1:1.41	1:1	1.1	-18	-12	-11.5	-42	-37	-30	-45	-40	-35	B	1500
PM-6108E	1:1	1:1	1.1	-20	-14	-11.5	-40	-37	-33	-45	-40	-35	A	1500
PM-6109E	1:1	1:1	1.1	-18	-14	-12	-40	-37	-33	-45	-40	-35	A	1500

10/100 Base-TX SINGLE PORT MAGNETIC MODULES

RoHS

- * Meets all IEEE 802.3 and ANSI X3.263 standard including 350 uH OCL with 8 mADC Bias.
- * Compact footprint for use in the most space restrictive applications.
- * Storage temperature same Operating temperature.
- * Moisture Sensitivity Level 3.

TEMP RANGE -40°C TO +105°C

ELECTRICAL SPECIFICATIONS AT 25°C - OPERATING TEMPERATURE RANGE -40°C TO +105°C

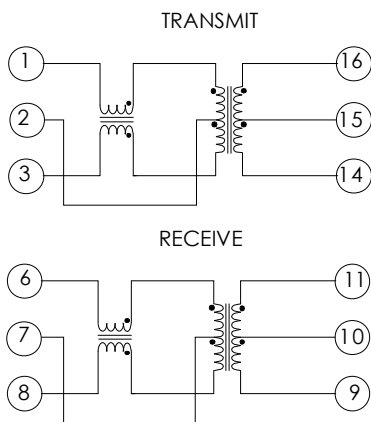
PART NUMBER	Turn Ratio		INSERTION LOSS (dB Max) 100KHz to 100MHz	Return Loss (dB TYP)			Diff. to Com Mode Rejection (dB TYP)			Crosstalk (dB TYP)			Schematic	HIPOT (Vrms)
	TX	RX		30 MHz	60 MHz	80 MHz	30 MHz	50 MHz	100 MHz	30 MHz	60 MHz	100 MHz		
PM-L6101A	1:1	1:1	1.1	-20	-14	-11.5	-42	-37	-33	-45	-40	-35	A	1500
PM-L6102A	1:1	1:1	1.1	-20	-14	-11.5	-42	-37	-33	-45	-40	-35	B	1500
PM-L6103A	2:1	1:1	1.1	-20	-14	-11.5	-42	-37	-33	-45	-40	-35	B	1500
PM-L6104A	1:1	2:1	1.1	-20	-14	-11.5	-42	-37	-33	-45	-40	-35	B	1500
PM-L6105A	1.41:1	1:1	1.1	-20	-14	-11.5	-42	-37	-33	-45	-40	-35	B	1500
PM-L6106A	1.25:1	1:1	1.1	-20	-14	-11.5	-42	-37	-33	-45	-40	-35	B	1500
PM-L6107A	1:1.41	1:1	1.1	-18	-12	-11.5	-42	-37	-30	-45	-40	-35	B	1500

TEMP RANGE -55°C TO +125°C

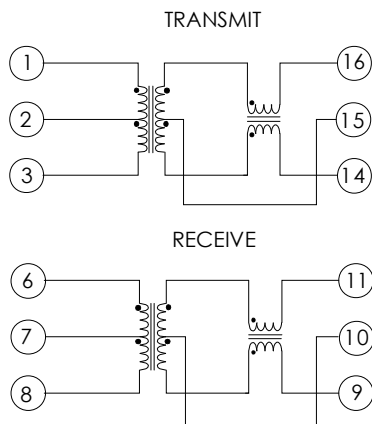
ELECTRICAL SPECIFICATIONS AT 25°C - OPERATING TEMPERATURE RANGE -55°C TO +125°C

PART NUMBER	Turn Ratio		INSERTION LOSS (dB Max) 300KHz to 100MHz	Return Loss (dB TYP)			Diff. to Com Mode Rejection (dB TYP)			Crosstalk (dB TYP)			Schematic	HIPOT (Vrms)
	TX	RX		30 MHz	60 MHz	80 MHz	30 MHz	50 MHz	100 MHz	30 MHz	60 MHz	100 MHz		
PM-L6101B	1:1	1:1	1.1	-20	-14	-11.5	-42	-37	-33	-45	-40	-35	A	1500
PM-L6102B	1:1	1:1	1.1	-20	-14	-11.5	-42	-37	-33	-45	-40	-35	B	1500
PM-L6103B	2:1	1:1	1.1	-20	-14	-11.5	-42	-37	-33	-45	-40	-35	B	1500
PM-L6104B	1:1	2:1	1.1	-20	-14	-11.5	-42	-37	-33	-45	-40	-35	B	1500
PM-L6105B	1.41:1	1:1	1.1	-20	-14	-11.5	-42	-37	-33	-45	-40	-35	B	1500
PM-L6106B	1.25:1	1:1	1.1	-20	-14	-11.5	-42	-37	-33	-45	-40	-35	B	1500
PM-L6107B	1:1.41	1:1	1.1	-18	-12	-11.5	-42	-37	-30	-45	-40	-35	B	1500
PM-L6108B	1:1	1:1	1.1	-20	-14	-11.5	-40	-37	-33	-45	-40	-35	A	1500
PM-L6109B	1:1	1:1	1.1	-18	-14	-12	-40	-37	-33	-45	-40	-35	A	1500

SCHEMATIC "A"



SCHEMATIC "B"

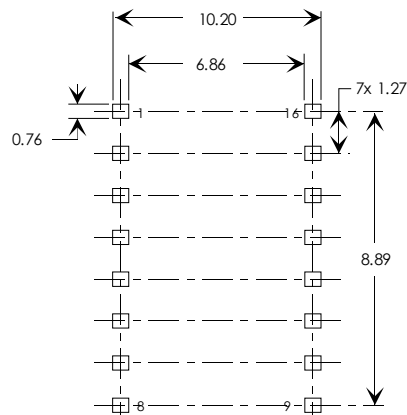
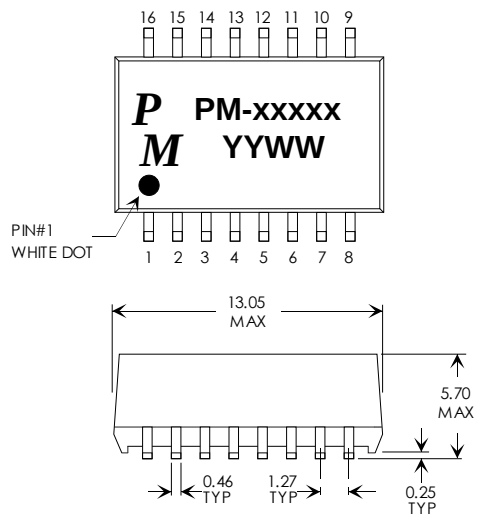


MECHANICAL pm-61xx

All Dimensions in inches (mm)

Unless otherwise specified, all

PCB LAYOUT

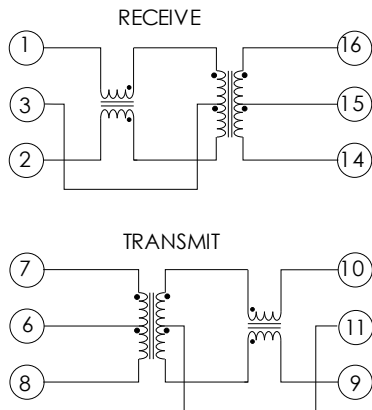


- * Meets all IEEE 802.3 and ANSI X3.263 standard including 350 uH OCL with 8 mADC Bias
- * Compact footprint for use in the most space restrictive applications

ELECTRICAL SPECIFICATIONS AT 25°C - OPERATING TEMPERATURE RANGE -25°C TO +85°C

PART NUMBER	Turn Ratio		INSERTION LOSS (dB Max) 100MHz	Return Loss (dB TYP)			Diff. to Com Mode Rejection (dB Min)		Crosstalk (dB Min)		Schematic	HIPOT (Vrms) 60Sec
	TX	RX		1-30 MHz	30- 60 MHz	60- 80 MHz	1-60 MHz	60-100 MHz	1-60 MHz	100 MHz		
PM-6120	1:1	1:1	-1.1	-18	-16	-12	-37	-35	-40	-35	C	4000

SCHEMATIC "C"

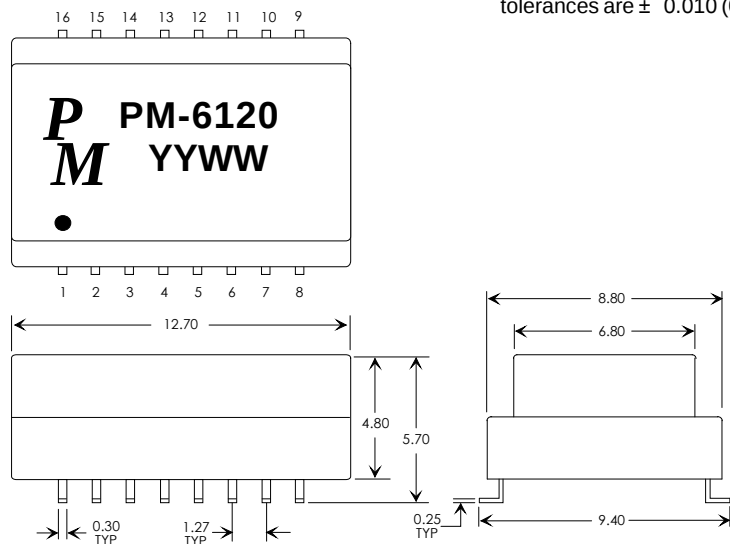


SCHEMATIC

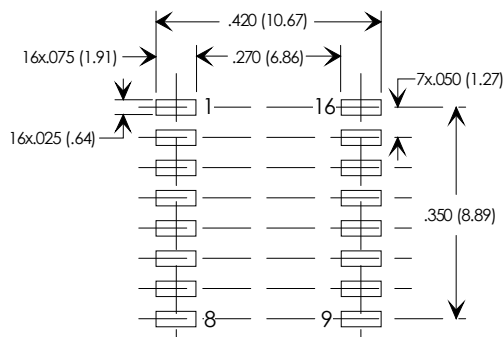
MECHANICAL pm-612x

All Dimensions in inches (mm)

Unless otherwise specified, all tolerances are ± 0.010 (0.25)



PCB LAYOUT

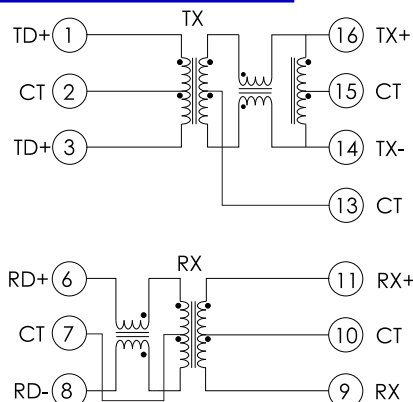


- * Meets all IEEE 802.3 and ANSI X3.263 standard including 350 μ H OCL with 8 mADC Bias
- * Compact footprint for use in the most space restrictive applications

ELECTRICAL SPECIFICATIONS AT 25°C - OPERATING TEMPERATURE RANGE -40°C TO +85°C

PART NUMBER	Turn Ratio ($\pm 5\%$)	Insertion Loss (dB Max)	Return Loss (dB TYP)			DCMR (dB TYP)			Crosstalk (dB TYP)			Schematic	HIPOT (Vrms)
		0.3-100 MHz	30 MHz	60 MHz	80 MHz	30 MHz	50 MHz	100 MHz	30 MHz	60 MHz	100 MHz		
PM-6130	1CT:1CT	-1.1	-16	-10	-10	-42	-37	-32	-35	-30	-30	D	1500

SCHEMATIC "D"

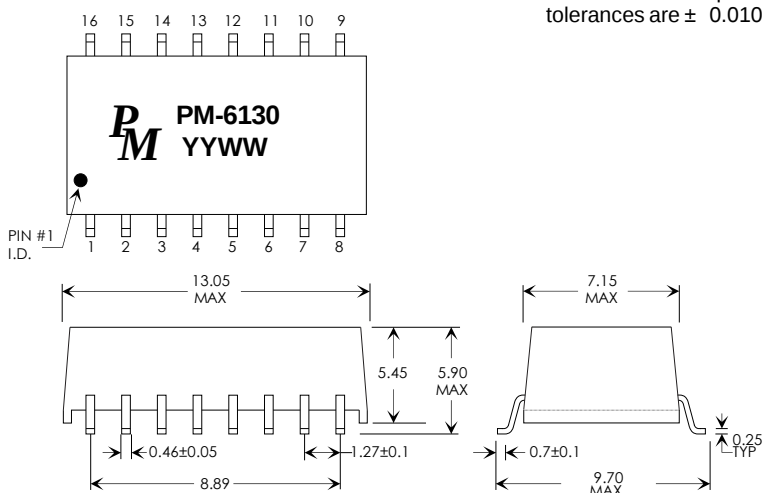


SCHEMATIC

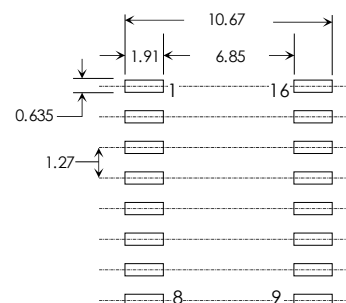
MECHANICAL pm-613x

All Dimensions in inches (mm)

Unless otherwise specified, all tolerances are ± 0.010 (0.25)



PCB LAYOUT





10/100 Base-TX SINGLE PORT MAGNETIC MODULES

RoHS

CROSSREFERENCE LISTING

<u>PREMIER PART#</u>	<u>X-REF NAME & PART#</u>	
PM-6102	PULSE	H1102
PM-6103	PULSE	H1100
PM-6106	PULSE	H1101
PM-6107	PULSE	H1121
PM-6108E	Bel	S558-5999-T5-F
PM-6109E	Unisen	PX-5117SG-03