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Integrated 10/100 Base-T RJ45 Through Hole MIC24 Series



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Typical Electrical Characteristics¹

Inductance	350uH Min.	0.1Vrms, 100kHz, 8mADC
Dielectric Rating	1500VAC	for 1 minute
Turns Ratio	1CT:1CT	±2%
Insertion Loss	-1.0dB max.	1MHz-100MHz
Return Loss	-18dB min.	1MHz-30MHz
	-16dB min.	30MHz-45MHz
	-14dB min.	45MHz-60MHz
	-12dB min.	60MHz-80MHz
Cross Talk	-35dB min.	1MHz-100MHz
Common Mode Rejection	-35dB min.	1MHz-100MHz

Note1: Characteristics for individual parts may vary slightly; see specification sheet for actual values.

Features

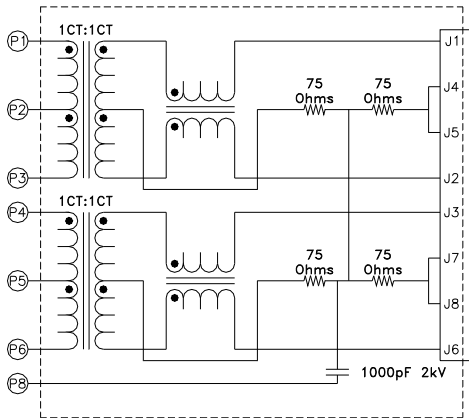
- Optional PoE compatible designs
- Optional pin-outs and LEDs
- Industry standard connector footprint
- Optimum performance
- Cost effective
- RoHS compliant

Part Number	LED (left-right)	Tab Direction	EMI Tabs	Operating	
				Temp. Range	Schematic Mechanical
MIC24010-5101	None	Down	Yes	0°C to +70° C	1 1
MIC24010-5104	None	Down	Yes	0°C to +70° C	2 1
MIC24010-0107	None	Down	Yes	-40°C to +85° C	3 1
MIC24011-0101	Yellow -Green	Down	Yes	0°C to +70° C	1 1
MIC24011-0104	Yellow -Green	Down	Yes	0°C to +70° C	2 1
MIC24011-5108	Yellow -Green	Down	Yes	-40°C to +85° C	1 1
MIC24012-5101	Green-Green	Down	Yes	0°C to +70° C	1 1
MIC24012-5204	Green-Green	Down	Yes	0°C to +70° C	2 1
MIC24012-5117	Green-Green	Down	Yes	-40°C to +85° C	2 1
MIC2401D-5101	Green/Yellow -Green/Yellow	Down	Yes	0°C to +70° C	1 1
MIC2401D-5217	Green/Yellow -Green/Yellow	Down	Yes	-40°C to +85° C	2 1
MIC24013-0102	Green-Yellow	Down	Yes	0°C to +70° C	4 1
MIC24013-5204	Green-Yellow	Down	Yes	0°C to +70° C	2 1
MIC24013-5104	Green-Yellow	Down	Yes	0°C to +70° C	2 7
MIC24018-5101	Red-Green	Down	Yes	0°C to +70° C	1 1
MIC24010-0229	None	Down	Yes	-40°C to +85° C	7 13
74990110011	None	Down	Yes	0°C to +70° C	1 12
74990112117	Green-Yellow	Down	Yes	-40°C to +85° C	8 11
MIC24019-0101	Green-Red	Down	Yes	0°C to +70° C	1 1
MIC24013-5101	Green-Yellow	Down	Yes	0°C to +70° C	1 1
MIC24010-5117	None	Down	Yes	-40°C to +85° C	2 12
7499111444	Green/Yellow -Green/Yellow	Down	Yes	0°C to +70° C	9 10
MIC24010-0104	None	Down	Yes	0°C to +70° C	2 12
MIC24010-5137	None	Down	Yes	0°C to +70° C	10 12
74990110010	None	Up	Yes	-40°C to +85° C	2 9
7499011442	Green/Yellow -Green/Yellow	Up	Yes	0°C to +70° C	6 8
MIC24111-0101	Yellow -Green	Up	Yes	0°C to +70° C	1 2
MIC24112-0101	Green-Green	Up	Yes	0°C to +70° C	1 2
MIC24111-0108	Yellow -Green	Up	Yes	-40°C to +85° C	1 2
74990112116	Green-Yellow	Up	Yes	-40°C to +85° C	1 2
MIC2411C-6131	Yellow -Orange/Green	Up	Yes	0°C to +70° C	6 8
MIC24110-6131	None	Up	Yes	0°C to +70° C	6 14
MIC2411D-0117	Green/Yellow -Green/Yellow	Up	Yes	-40°C to +85° C	2 2
MIC24210-0101	None	Down	No	0°C to +70° C	1 3
MIC24210-0104	None	Down	No	0°C to +70° C	2 3
MIC24211-5101	Yellow -Green	Down	No	0°C to +70° C	1 3
MIC24212-5104	Green-Green	Down	No	0°C to +70° C	2 3
MIC24213-5101	Green-Yellow	Down	No	0°C to +70° C	1 3
MIC24213-5204	Green-Yellow	Down	No	0°C to +70° C	2 6
MIC24310-5101	None	Up	No	0°C to +70° C	1 5
MIC24311-0101	Yellow -Green	Up	No	0°C to +70° C	1 4
MIC24313-0101	Green-Yellow	Up	No	0°C to +70° C	1 4
7499010214	Green-Yellow	Up	No	0°C to +70° C	5 4

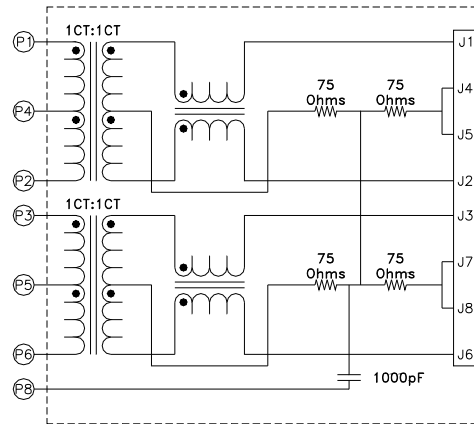


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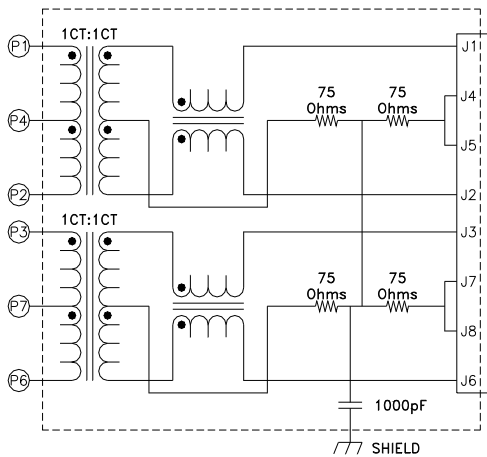
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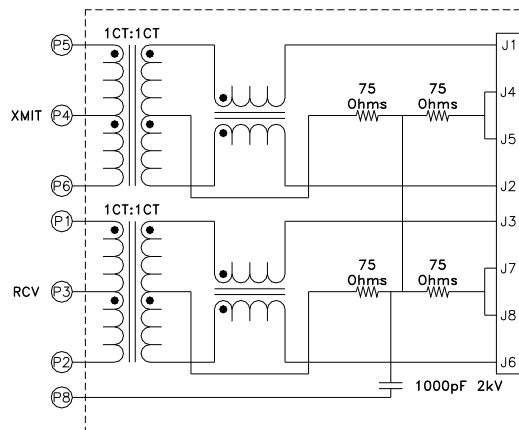
Schematic 1



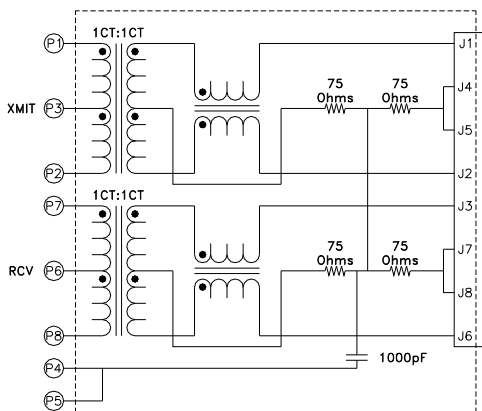
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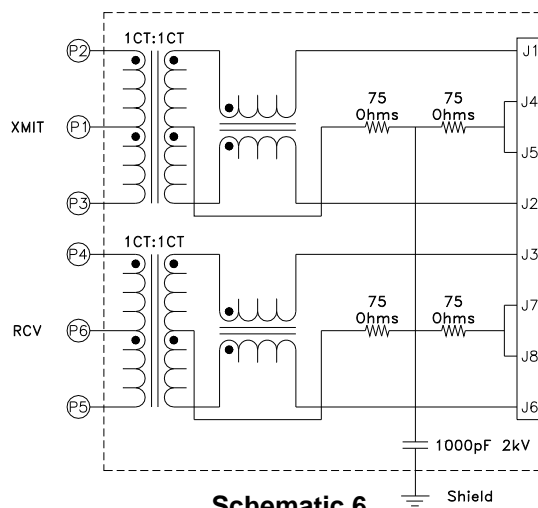
Schematic 3



Schematic 4



Schematic 5

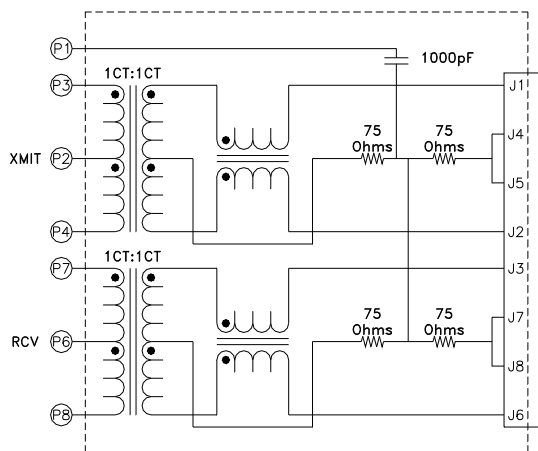


Schematic 6

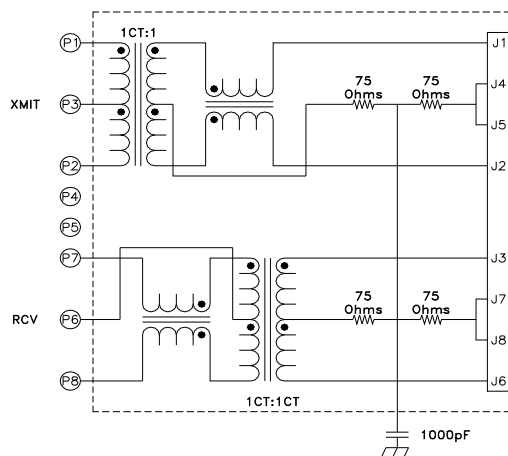
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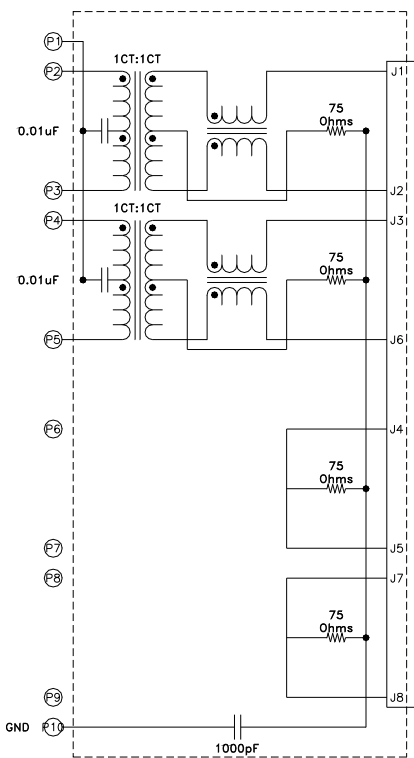
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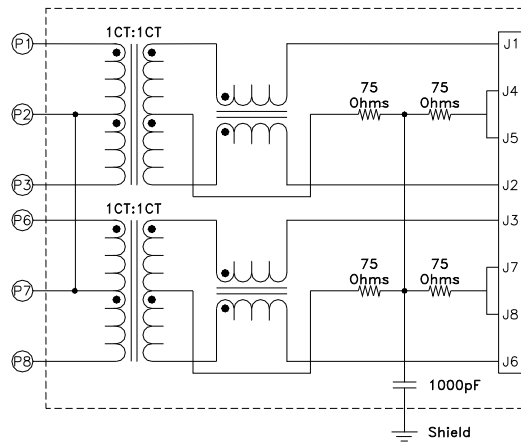
Schematic 7



Schematic 8



Schematic 9



Schematic 10

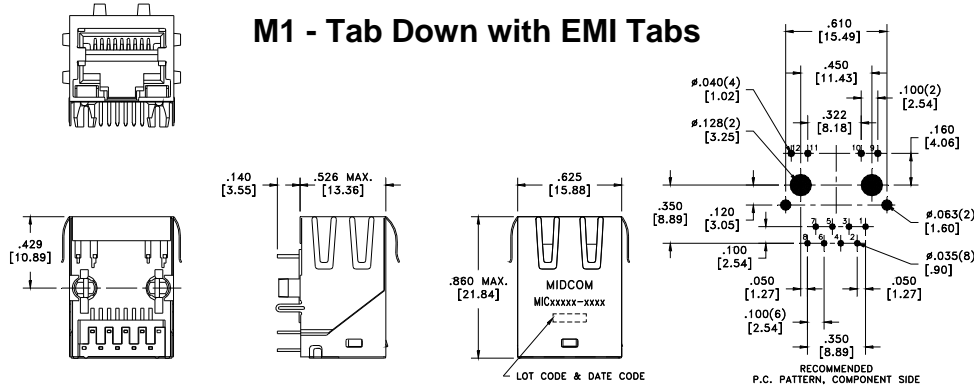


**Integrated 10/100 Base-T RJ45
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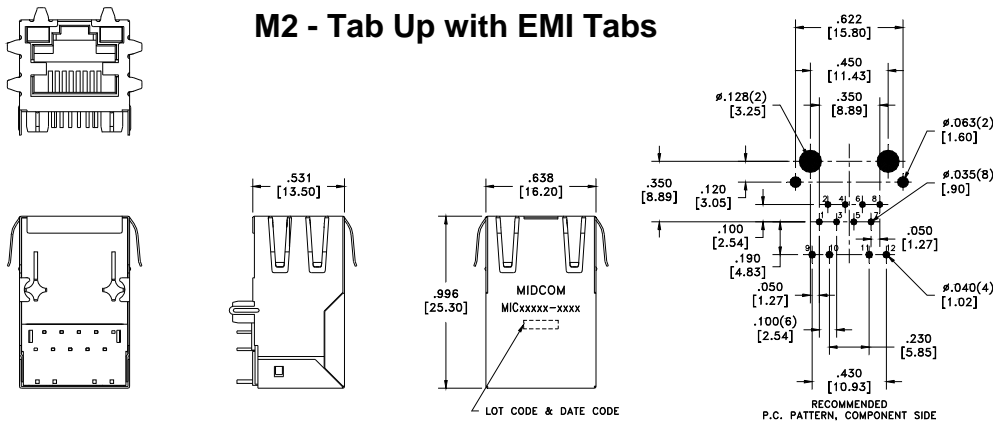
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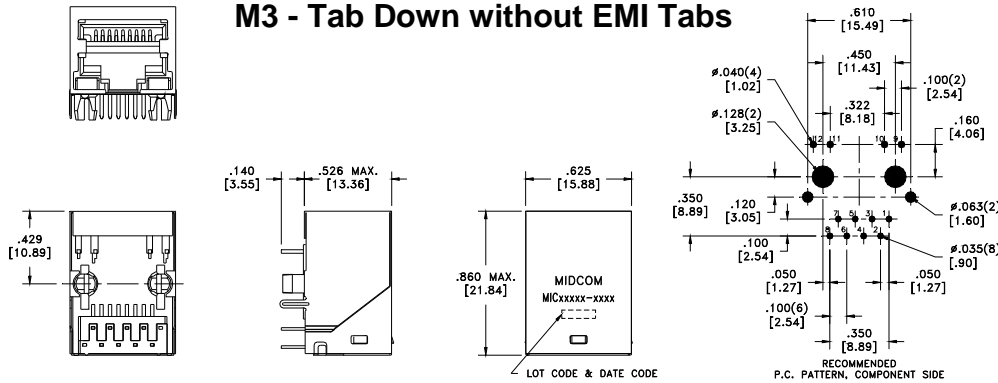
M1 - Tab Down with EMI Tabs



M2 - Tab Up with EMI Tabs



M3 - Tab Down without EMI Tabs



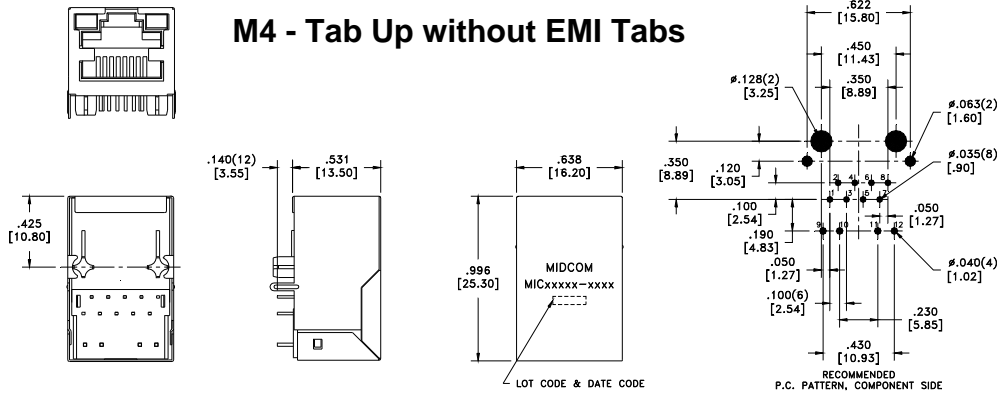


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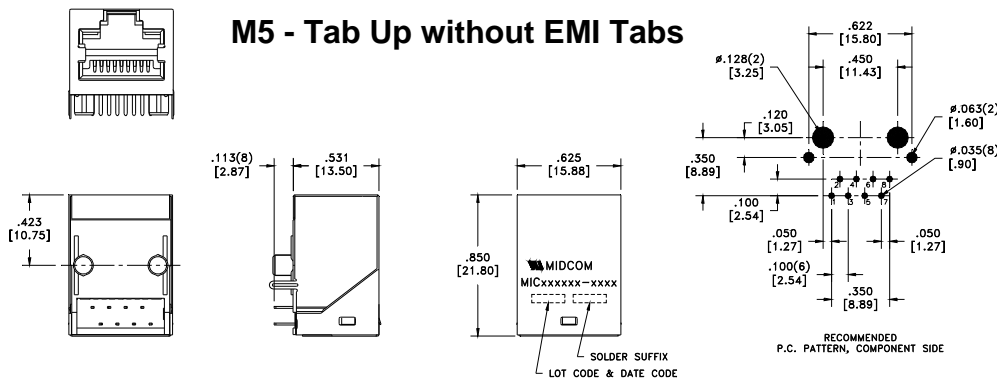
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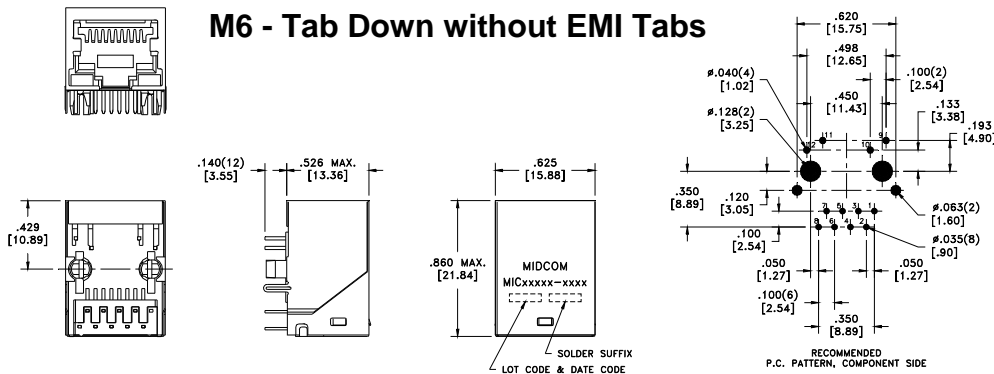
M4 - Tab Up without EMI Tabs



M5 - Tab Up without EMI Tabs



M6 - Tab Down without EMI Tabs



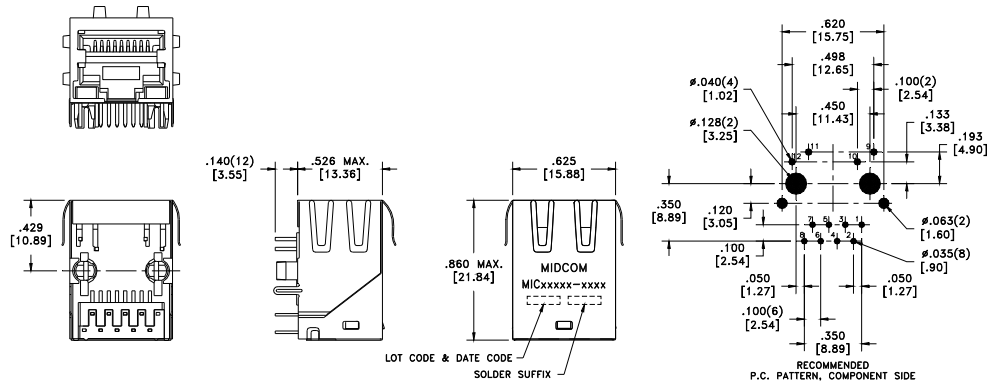


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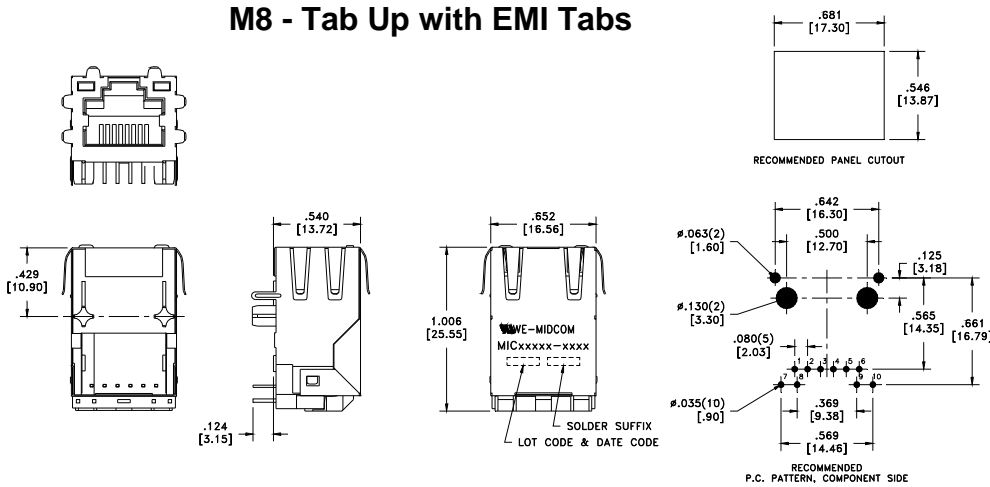


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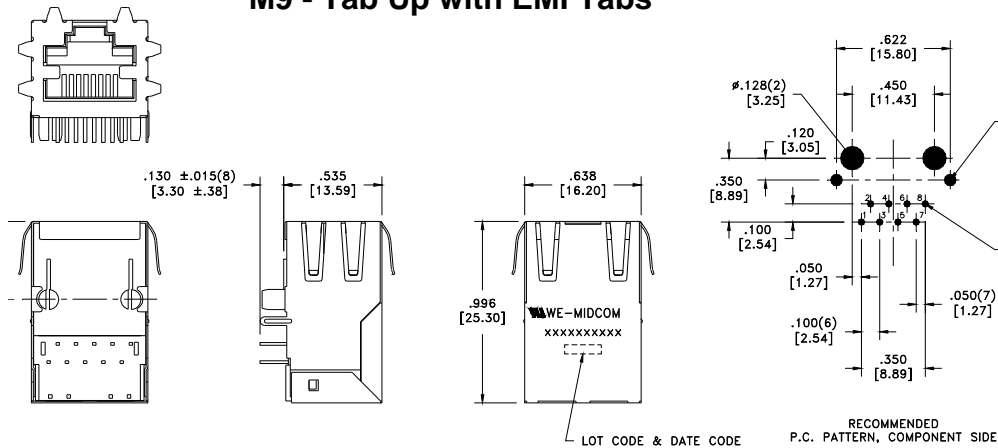
M7 - Tab Down with EMI Tabs



M8 - Tab Up with EMI Tabs



M9 - Tab Up with EMI Tabs



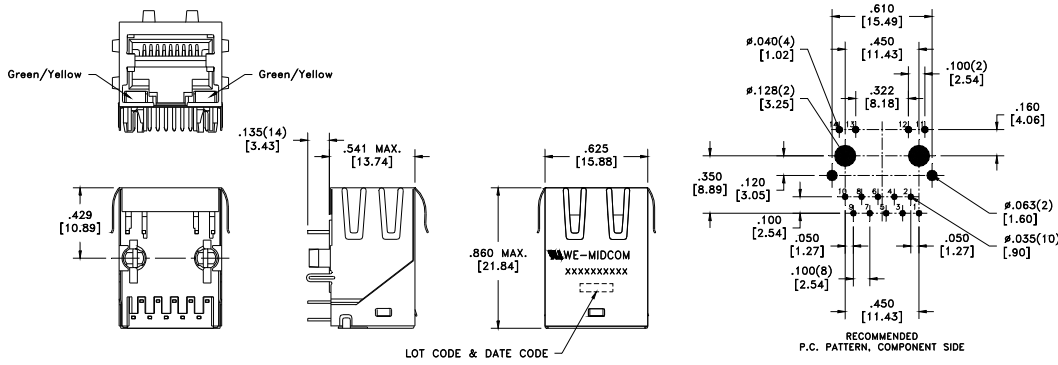


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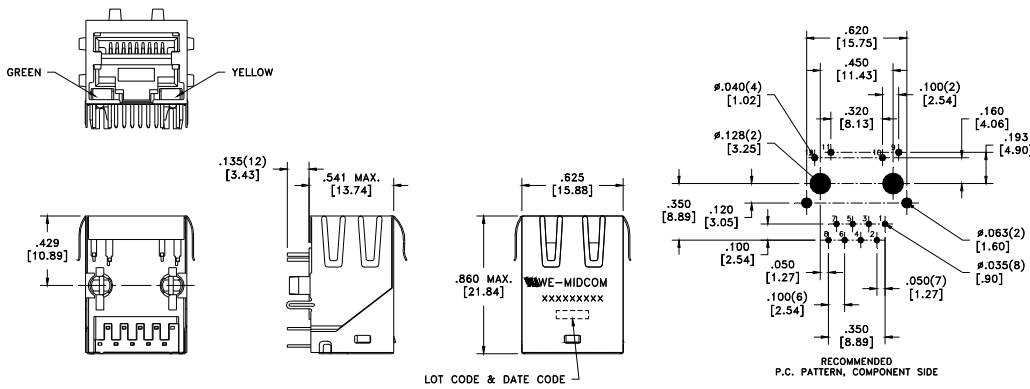
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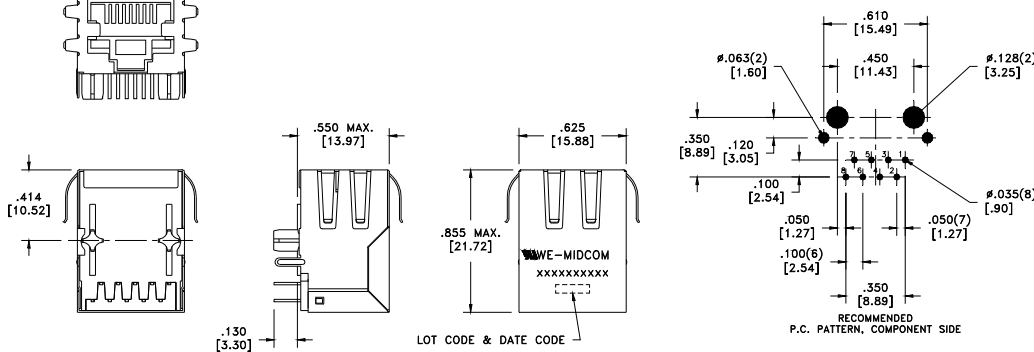
M10 - Tab Down with EMI Tabs



M11 - Tab Down with EMI Tabs



M12 - Tab Down with EMI Tabs



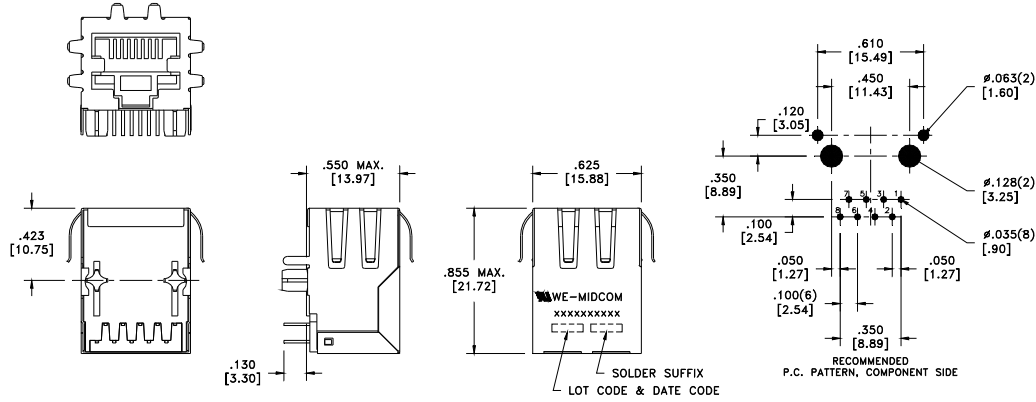


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M13 - Tab Down with EMI Tabs



M14 - Tab Up with EMI Tabs

