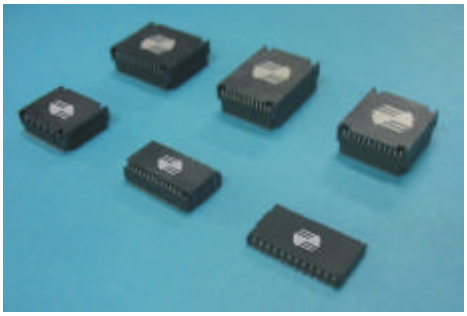
Elec & Eltek依利安達
E & E Magnetic Products Limited

1000BASE-T SINGLE PORT MAGNETIC MODULE

- Compliant with IEEE802.3 standard including 350uH OCL
- Operating temperature 0°C to +70°C
- RoHS compliant



ELECTRICAL SPECIFICATION @ 25°C

Part Number	PoE	Insertion Loss (dB Max)		Return Loss (dB Min)				CMRR (dB Min)	Crosstalk (dB Min)			Hipot (Vrms)
		0.1-100MHz	100-125MHz	30MHz	60MHz	80MHz	100MHz	-	30MHz	60MHz	100MHz	
824-00418R	Yes	1.1	2.0	18	12	12	10	-	43	37	33	1500
		0.1-100MHz	100-125MHz	0.5-40MHz		40-100MHz		0.1-100MHz	0.1-100MHz			
824-00419R	No	1.1	1.5	18		12-20Log(F/80)		30	33-20Log(F/100)			1500
		0.1-100MHz		1-30MHz	40MHz	50MHz	60-80MHz	0.1-100MHz	30MHz	60MHz	100MHz	
824-00422F	No	1.0		18	14.5	13.1	12	35	45	40	33	1500
824-C0160F[1]	No	1.0		18	14.5	13.1	12	35	45	40	35	1500
		0.1-100MHz		1-40MHz		40-100MHz		1-100MHz	1-100MHz			
824-00444F	No	1.0		18		12-20Log(F/80)		33	35			1500
		0.1-100MHz		1-30MHz	40-50MHz	60-80MHz	100MHz	0.1-100MHz	0.1-100MHz			
824-00387R	No	1.0		18	16	12	10	33	33			1500
		1-100MHz		1-40MHz	50MHz	60-80MHz	100MHz	1-100MHz	1-100MHz			
824-00427R	No	1.0		18	16	12	10	33	33			1500
		0.1-100MHz		1-40MHz	50MHz	60MHz	80MHz	100MHz	1-100MHz	1-100MHz		
824-00451R	No	1.0		18	16.1	14.5	12	10.1	30	30		1500
824-C0328R[1]	No	1.0		18	16	14.5	12	10	33	33		1500
		0.1-100MHz	100-125MHz	1-40MHz	50MHz	60MHz	80MHz	100MHz	1-100MHz	1-100MHz		
824-C0332R[1]	No	1.0	1.5	18	16	14.5	12	10	30	33		1500

ELECTRICAL SPECIFICATION @ 25°C

Part Number	PoE	Insertion Loss (dB Max)	Return Loss (dB Min)				CMRR (dB Min)		Crosstalk (dB Min)	Hipot (Vrms)
		0.3-100MHz	0.5-40MHz	40-60MHz	60-80MHz	80-100MHz	0.3-32MHz	32-100MHz	0.3-100MHz	
824-00401F	No	1.0	18	15	12	10	42	33	35	1500

ELECTRICAL SPECIFICATION @ 25°C

Part Number	PoE	Insertion Loss (dB Max)				Return Loss (dB Min)		CMRR (dB Min)	Crosstalk (dB Typ)	Hipot (Vrms)
		1-100MHz				1-40MHz	40-100MHz	1-100MHz	1-100MHz	
824-00411F[1]	No	1.0				18	12-20Log(F/80)	30	33	1500
		0.1-1MHz	1-65MHz	65-100MHz	100-125MHz	0.5-40MHz	40-100MHz	0.1-100MHz	1-100MHz	
824-C0053F	No	1.1	0.5	0.8	1.2	18	12-20Log(F/80)	30	35-20Log(F/100)	1500

1/F., Harbour View 1, No.12 Science Park East Avenue, Phase II, Hong Kong Science Park, Shatin, N.T. Hong Kong
Tel: (852) 2954 3333 • Fax: (852) 2954 3304

ELECTRICAL SPECIFICATION @ 25°C

Part Number	PoE	Insertion Loss (dB Max)			Return Loss (dB Min)				CMRR (dB Min)	Crosstalk (dB Min)			Hipot (Vrms)
		1-65MHz	65-100MHz	100-125MHz	1-30MHz	40-50MHz	60-80MHz	100MHz	1-100MHz	1-40MHz	60MHz	100MHz	
824-00369R	No	1.0	1.1	1.5	18	16	12	10	30	40	35	30	1500

ELECTRICAL SPECIFICATION @ 25°C

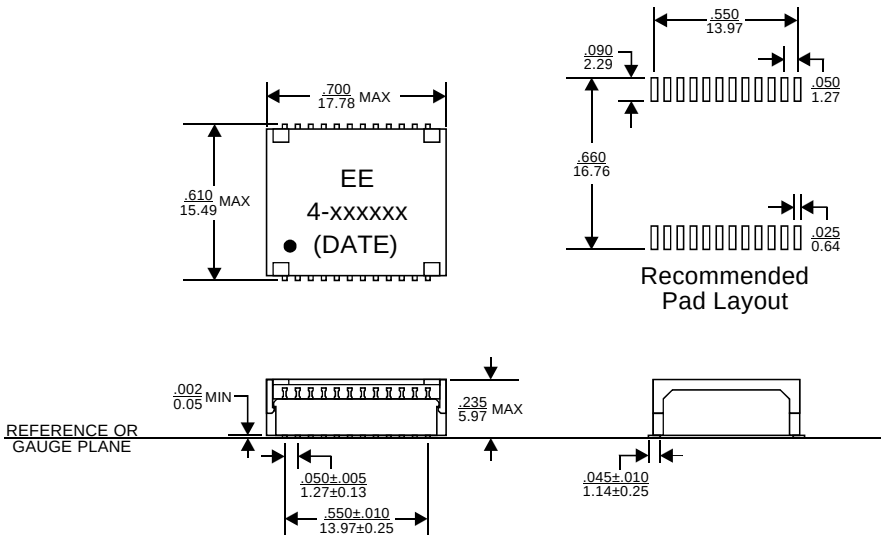
Part Number	PoE	Insertion Loss (dB Max)	Return Loss (dB Min)		DM-CMRR (dB Min)		Crosstalk (dB Min)		Hipot (Vrms)
		1-100MHz	1-40MHz	40-100MHz	1-100MHz		1-100MHz		
824-00450R [1]	No	1.0	18	12-20Log(F/80)	33		33		1500
		1-100MHz	1-40MHz	50MHz	60-80MHz	100MHz	30MHz	60MHz	100MHz	30MHz	60MHz	100MHz	
824-00459F	No	1.0	18	16	12	10	43	37	33	45	40	35	1500

Notes:

1. Operating temperature range: -40°C to +85°C.
2. "F" represents the test frequency specified in MHz.

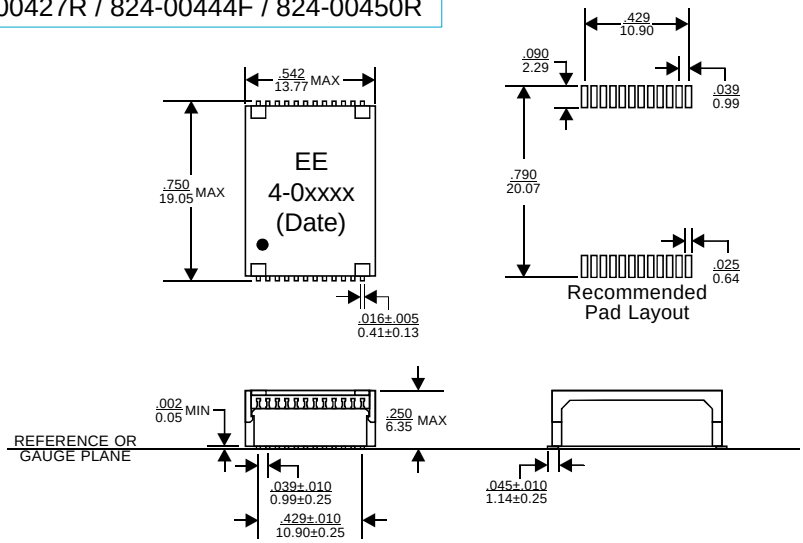
MECHANICAL DIMENSIONS

824-00418R / 824-00419R / 824-00422F / 824-C0053F / 824-C0160F / 824-C0328R / 824-C0332R



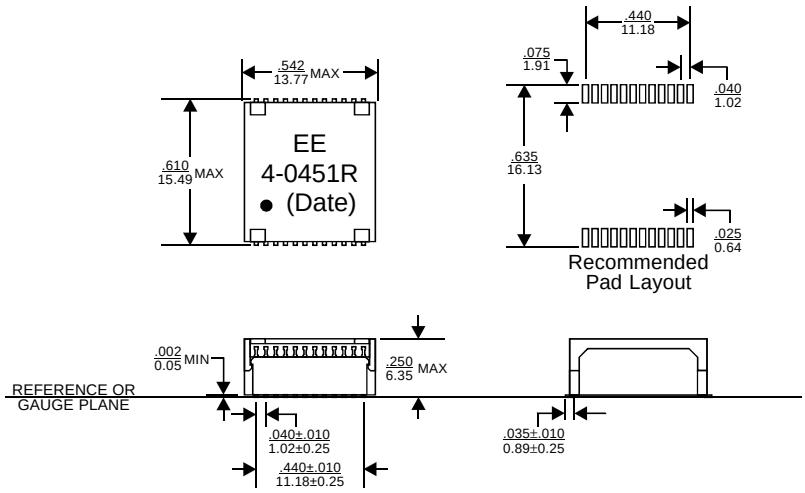
MECHANICAL DIMENSIONS

824-00411F / 824-00427R / 824-00444F / 824-00450R



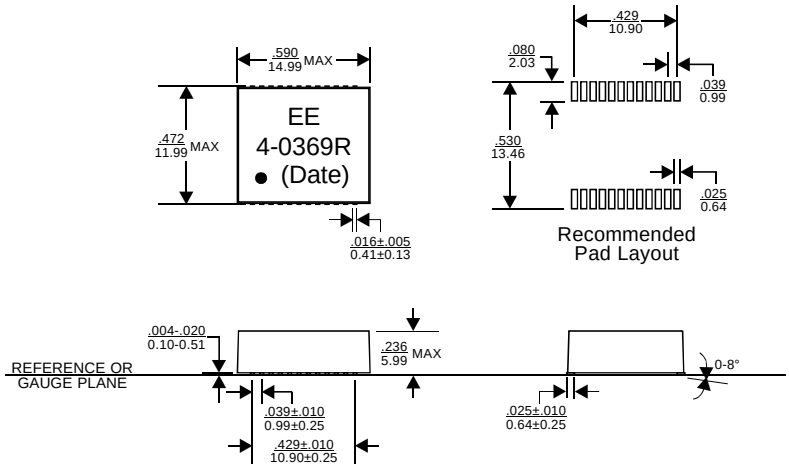
MECHANICAL DIMENSIONS

824-00451R



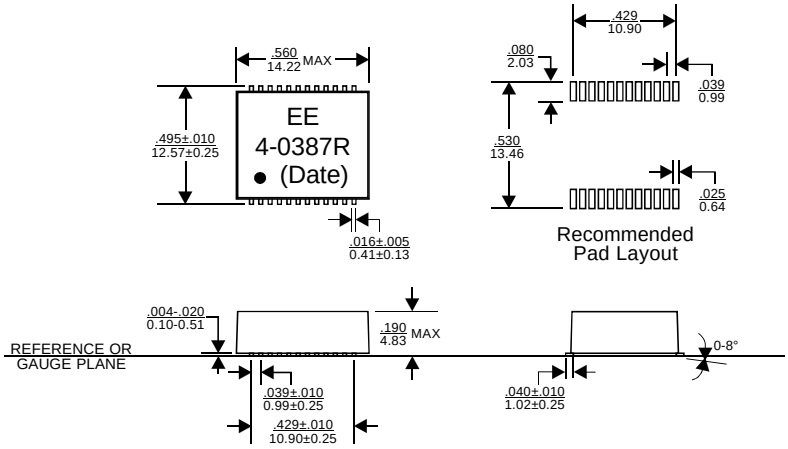
MECHANICAL DIMENSIONS

824-00369R



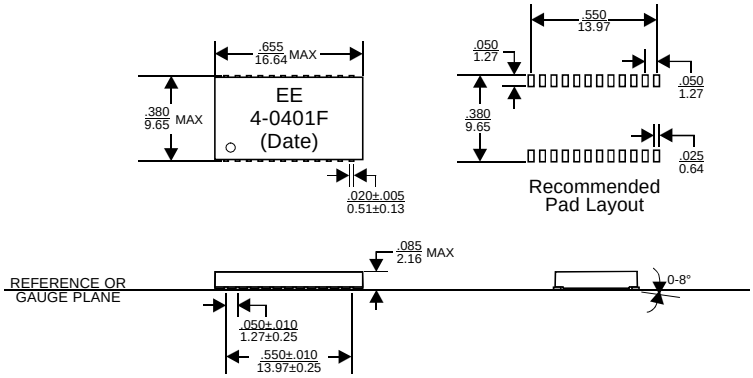
MECHANICAL DIMENSIONS

824-00387R



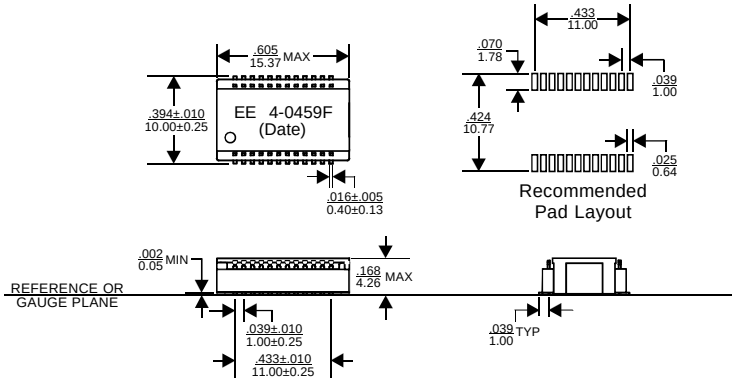
MECHANICAL DIMENSIONS

824-00401F



MECHANICAL DIMENSIONS

824-00459F



Notes:

3. Dimensions are specified in $\frac{\text{inches}}{\text{mm}}$ with higher precedence in inches.

4. Unless otherwise specified, all tolerance are $\pm \frac{.010}{0.25}$.

5. Coplanarity: $\frac{.004}{0.10}$ max.

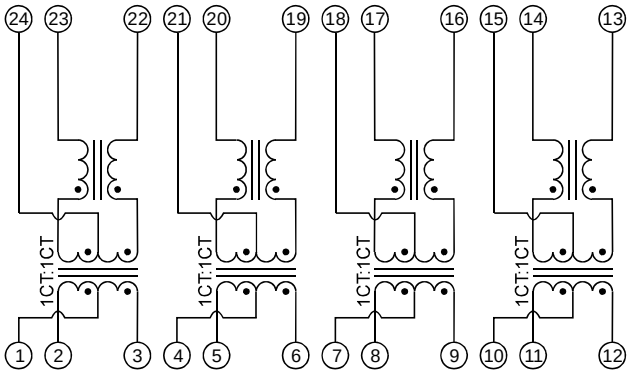
6. "(DATE)" includes at least the manufacturing date code(in YYWW format) plus two character country code.

7. When ordering, please add suffix “T” to the part number for tape & reel packaging (330mm reel).

SCHEMATICS

824-00369R / 824-00411F / 824-00444F / 824-C0053F / 824-C0160F

LINE SIDE (Secondary)

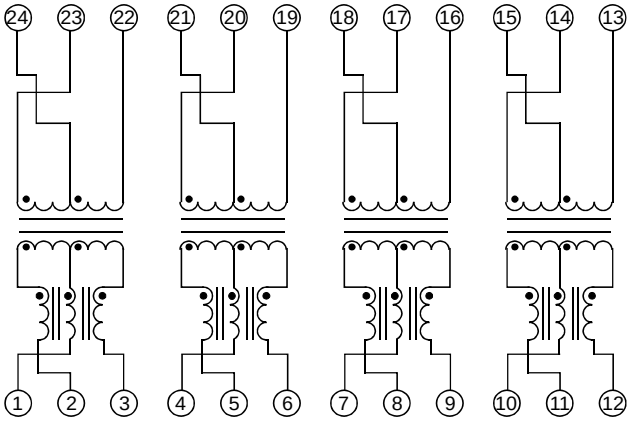


CHIP SIDE (Primary)

SCHEMATICS

824-00387R / 824-00418R / 824-00419R / 824-00451R / 824-C0332R

LINE SIDE (Secondary)

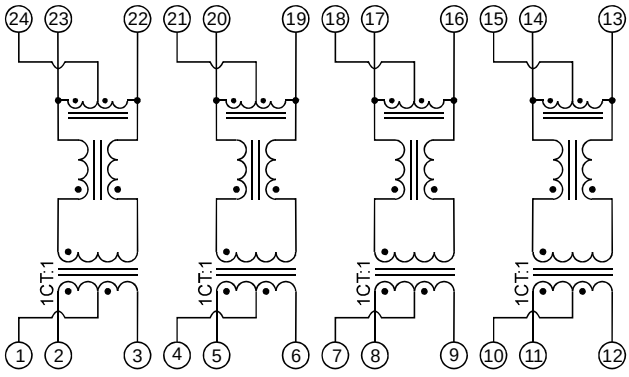


CHIP SIDE (Primary)

SCHEMATICS

824-00422F / 824-00427R / 824-00450R / 824-C0328R

LINE SIDE (Secondary)

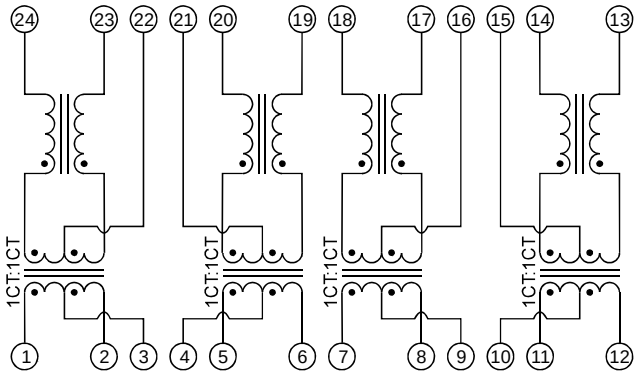


CHIP SIDE (Primary)

SCHEMATICS

824-00401F

LINE SIDE (Secondary)

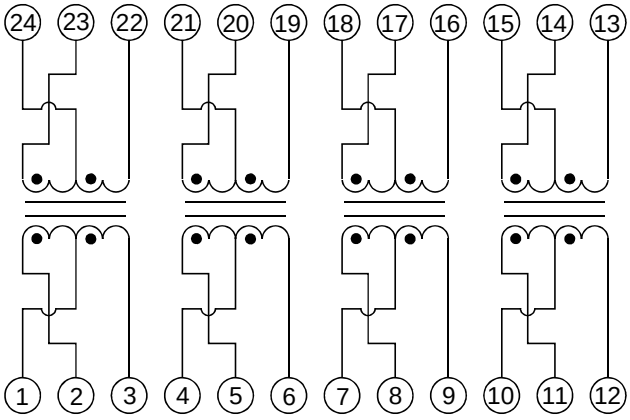


CHIP SIDE (Primary)

SCHEMATICS

824-00459F

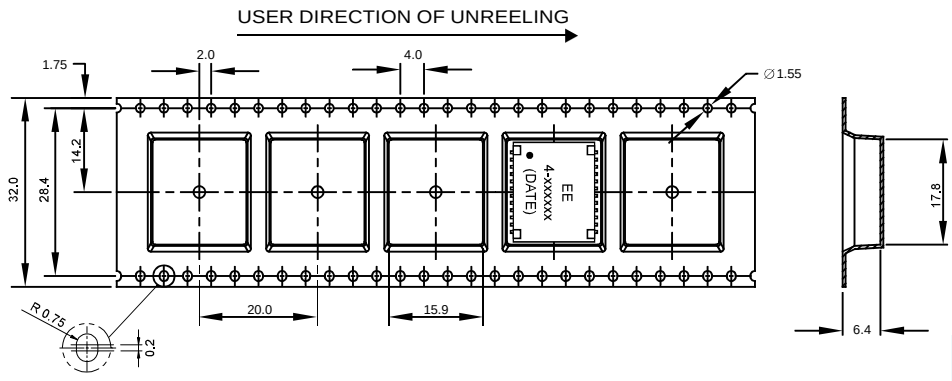
LINE SIDE (Secondary)



CHIP SIDE (Primary)

PACKAGING

824-00418R / 824-00419R / 824-00422F / 824-C0053F / 824-C0160F / 824-C0328R / 824-C0332R

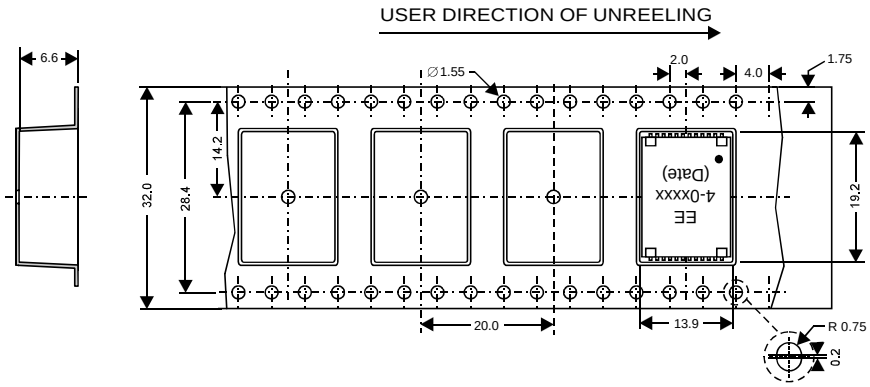


Weight (in gram) : 1.7 typ.

Tape & Reel : 450 / reel

PACKAGING

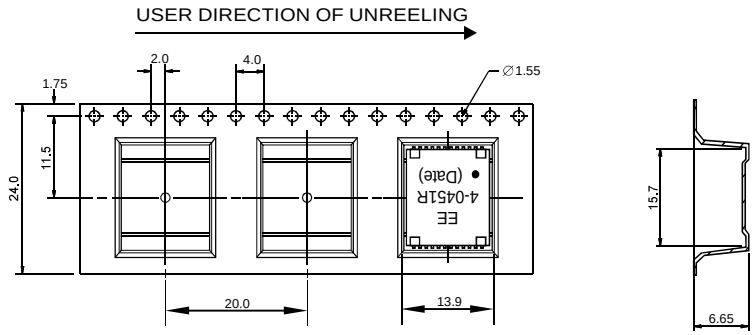
824-00411F / 824-00427R / 824-00444F / 824-00450R



Weight (in gram) : 1.9 typ.
Tape & Reel : 450 / reel

PACKAGING

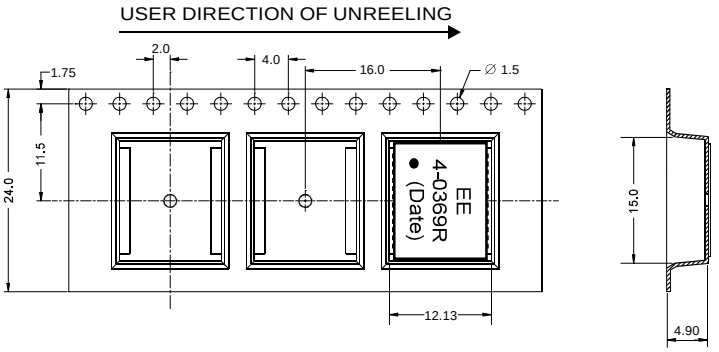
824-00451R



Weight (in gram) : 1.8 typ.
Tape & Reel : 450 / reel

PACKAGING

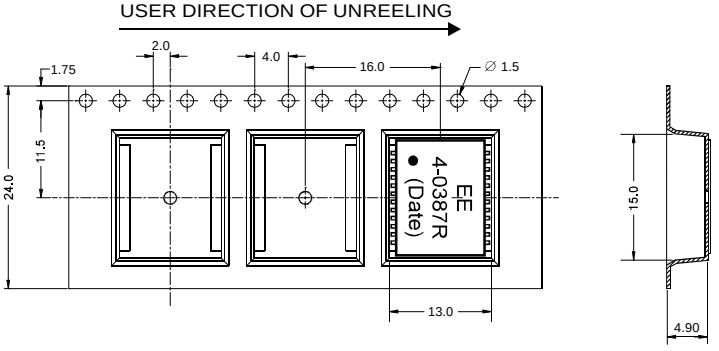
824-00369R



Tape & Reel : 750 / reel

PACKAGING

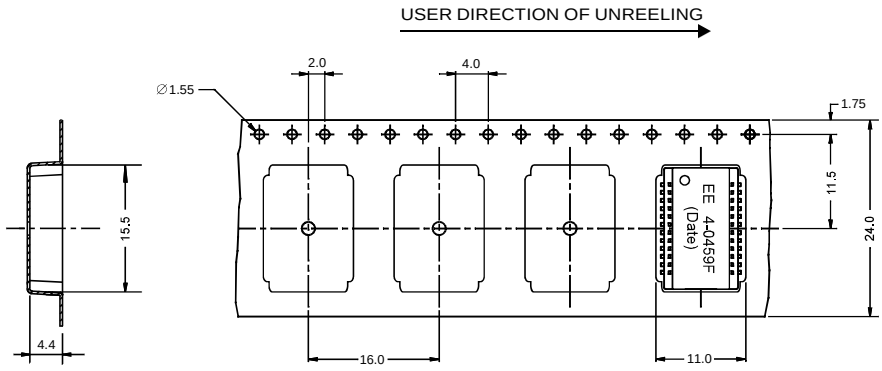
824-00387R



Tape & Reel : 750 / reel

PACKAGING

824-00459F



Weight (in gram) : 0.7 typ.

Tape & Reel : 850 / reel

FOR MORE INFORMATION, PLEASE CONTACT

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1/F., Harbour View 1, No.12 Science Park East Avenue,
Phase II, Hong Kong Science Park, Shatin, N.T.
Hong Kong
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Email: eempl@eleceltek.com
Website: http://www.eleceltek.com / www.eemagnetic.com

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