



Wi-Fi 6/6E TRIPLE BAND EMBEDDED ANTENNA

Part Numbers: 2344657-1, 2344657-2
2344657-3, 2344657-4
2344657-5, 2344657-6
2344657-7, 2344657-8
2344657-9.1-2344657-1
1-2344657-2, 1-2344657-3
1-2344657-4

FEATURES & BENEFITS

- Wi-Fi 6, also including Wi-Fi 6E new 6GHz band, Bluetooth, ZigBee
- Adhesive backing on FPC simplifies mounting within the device
- Omnidirectional coverage
- No matching components required
- Different cable length and connector options available

SPECIFICATIONS (Shown as 2344657-1 : Others can vary with different cable lengths.)

Frequency Range (MHz)	2400-2500	5150-5875	5925-7125
VSWR	< 2.7:1	< 2.1:1	< 2.1:1
Average Efficiency	61%	72%	66%
Peak Gain	1.1dBi	4.9dBi	5.3dBi
Average Gain	-2.2dB	-1.4dB	-1.8dB
Power Handling	10 Watt cw		
Feed Point Impedance	50 ohms unbalanced		
Polarization	Linear		
Size	35 mm x 8.0 mm x 0.2 mm		
Weight	< 0.8 g		
Mounting	Adhesive Tape		
Mating Connectors	MHF and MHF4-type, Refer to page 7		
Cable (Coaxial)	0.81mm and 1.13mm Dia., Refer to page 7		
Operating Temperature	-40 to +85°C		
Storage Temperature	-40 to +85°C		
Hazardous Materials	A certificate of conformance is available from the product page on TE website.		

RF data for each P/N

P/N	Cable Length (mm)	Connector	RF DATA	VSWR(MHz)		
				2400-2500	5150-5875	5925-7125
2344657-1	50	MHF	VSWR	< 2.7:1	< 2.1:1	< 2.1:1
			Aver. Eff.	61%	72%	66%
			Peak Gain	1.1dBi	4.9dBi	5.3dBi
			Aver. Gain	-2.2dB	-1.4dB	-1.8dB
2344657-2	100	MHF	VSWR	< 1.3:1	< 1.8:1	< 1.9:1
			Aver. Eff.	58	69	62
			Peak Gain	1.0	4.7	5.1
			Aver. Gain	-2.3	-1.6	-2.1
2344657-3	150	MHF	VSWR	< 1.4:1	< 1.9:1	< 2.0:1
			Aver. Eff.	56	65	59
			Peak Gain	0.8	4.5	4.8
			Aver. Gain	-2.5	-1.8	-2.3
2344657-4	200	MHF	VSWR	< 1.3:1	< 1.6:1	< 2.2:1
			Aver. Eff.	55	62	56
			Peak Gain	0.7	4.2	4.6
			Aver. Gain	-2.6	-2.1	-2.6
2344657-9	250	MHF	VSWR	< 1.3:1	< 1.5:1	< 2.1:1
			Aver. Eff.	53	59	52
			Peak Gain	0.5	4.0	4.3
			Aver. Gain	-2.8	-2.3	-2.8
1-2344657-3	300	MHF	VSWR	< 1.4:1	< 1.6:1	< 2.2:1
			Aver. Eff.	51	56	50
			Peak Gain	0.4	3.8	4.1
			Aver. Gain	-2.9	-2.5	-3.1

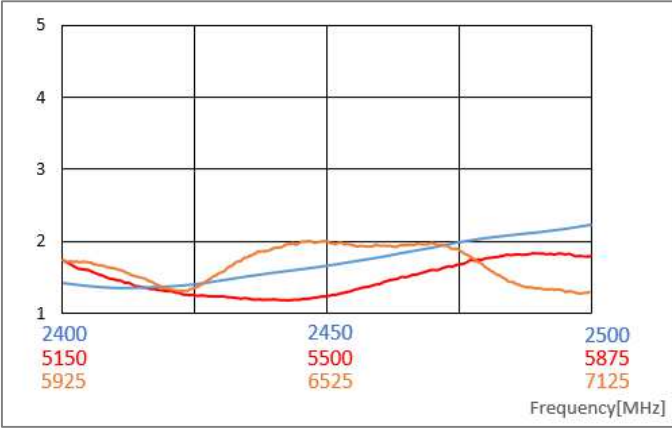


RF data for each P/N

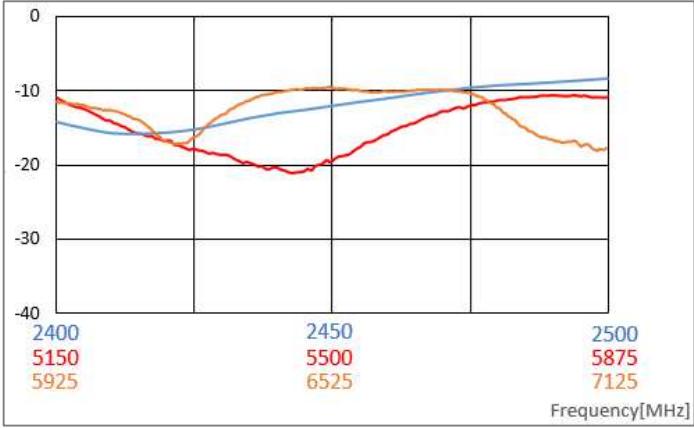
P/N	Cable Length (mm)	Connector	RF DATA	VSWR(MHz)		
				2400-2500	5150-5875	5925-7125
2344657-5	50	MHF4	VSWR	< 1.2:1	< 1.5:1	< 2.1:1
			Aver. Eff.	60	71	65
			Peak Gain	1.1	4.8	5.2
			Aver. Gain	-2.2	-1.5	-1.9
2344657-6	100	MHF4	VSWR	< 1.4:1	< 1.7:1	< 2.1:1
			Aver. Eff.	57	67	60
			Peak Gain	0.9	4.5	4.9
			Aver. Gain	-2.4	-1.8	-2.2
2344657-7	150	MHF4	VSWR	< 1.4:1	< 1.5:1	< 2.1:1
			Aver. Eff.	55	62	56
			Peak Gain	0.7	4.3	4.6
			Aver. Gain	-2.6	-2.1	-2.5
2344657-8	200	MHF4	VSWR	< 1.3:1	< 1.5:1	< 2.1:1
			Aver. Eff.	53	58	52
			Peak Gain	0.5	4.0	4.2
			Aver. Gain	-2.8	-2.3	-2.9
1-2344657-1	300	MHF4	VSWR	< 1.4:1	< 1.6:1	< 2.2:1
			Aver. Eff.	49	51	44
			Peak Gain	0.2	3.4	3.6
			Aver. Gain	-3.1	-2.9	-3.5
1-2344657-2	250	MHF4	VSWR	< 1.5:1	< 1.6:1	< 2.2:1
			Aver. Eff.	51	55	48
			Peak Gain	0.4	3.7	3.9
			Aver. Gain	-2.9	-2.6	-3.2
1-2344657-4	330	MHF4	VSWR	< 1.4:1	< 1.6:1	< 2.1:1
			Aver. Eff.	48	49	42
			Peak Gain	0.1	3.2	3.4
			Aver. Gain	-3.2	-3.1	-3.7

RF DATA (Shown as 2344657-1 : Others can vary with different cable lengths.)

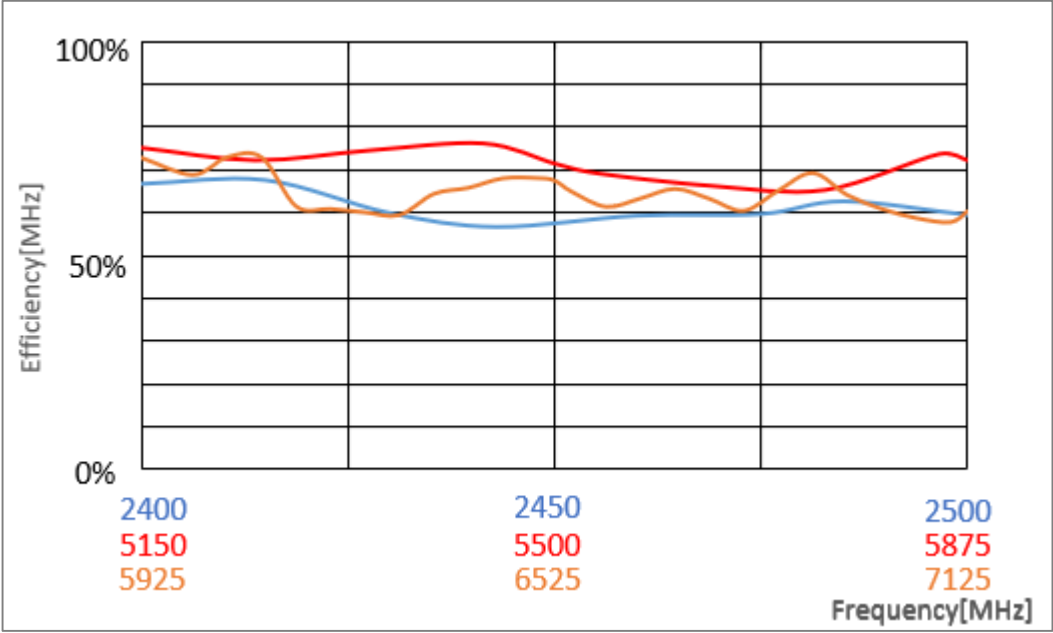
VSWR



Return Loss



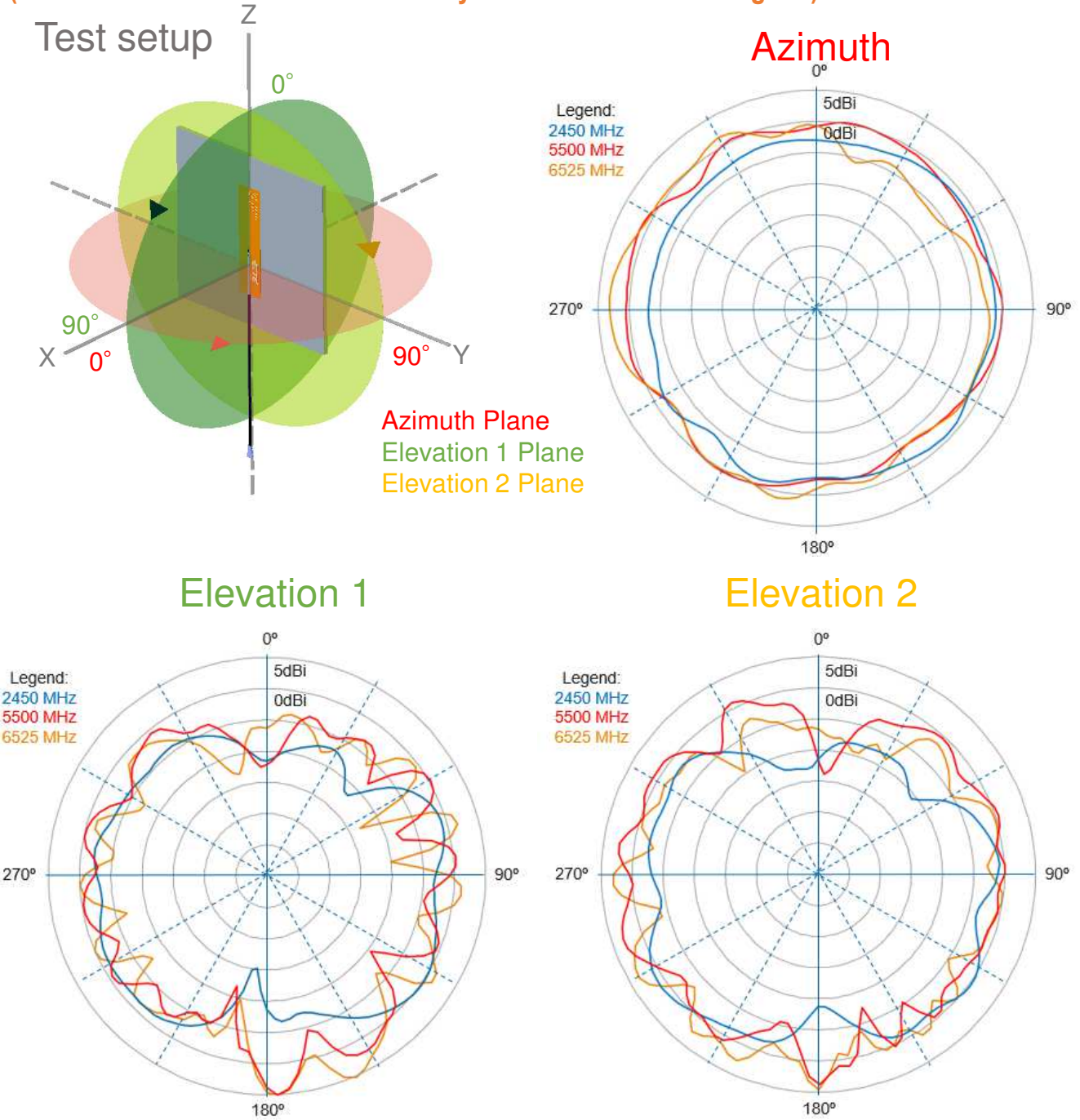
Efficiency



Data measured in free space and on plastic device enclosure

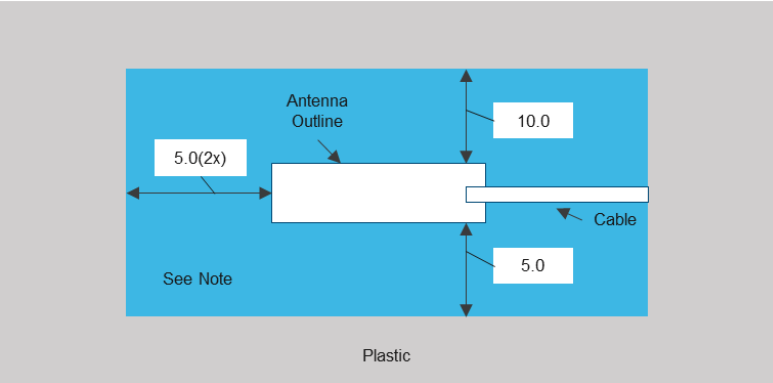
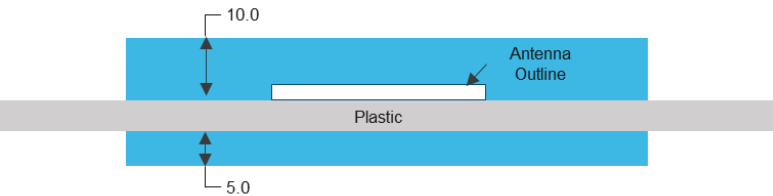
RADIATION PATTERN

(Shown as 2344657-1 : Others can vary with different cable lengths.)



Data measured in free space and on plastic device enclosure

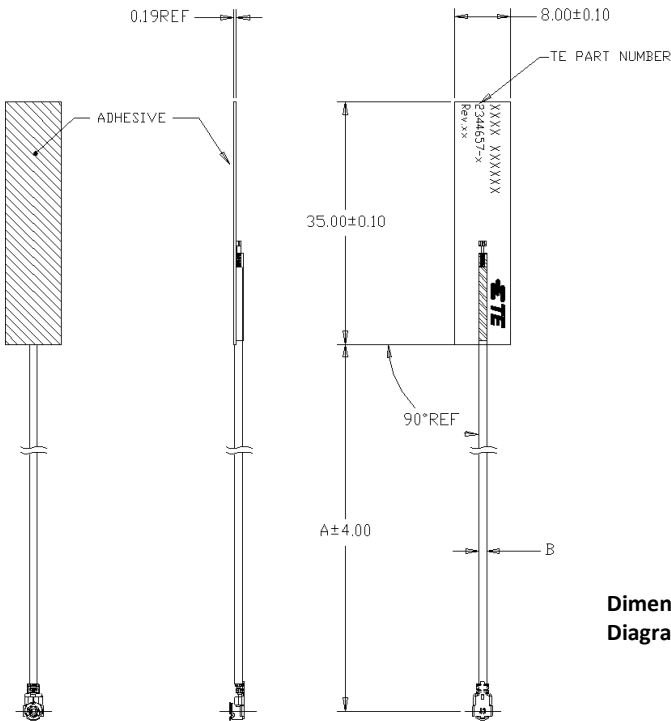
KEEP OUT AREA



- NOTES**
- 1. Antenna designed to be mounted on plastic cover.
 - 2. Area in blue indicates Keep Out Area
 - 3. Contact TE if keep out zone cannot be guaranteed.

Dimension: mm
Diagrams is not into scale

DIMENSIONS
(Refer to Page7 for dimension “A” and “B”)

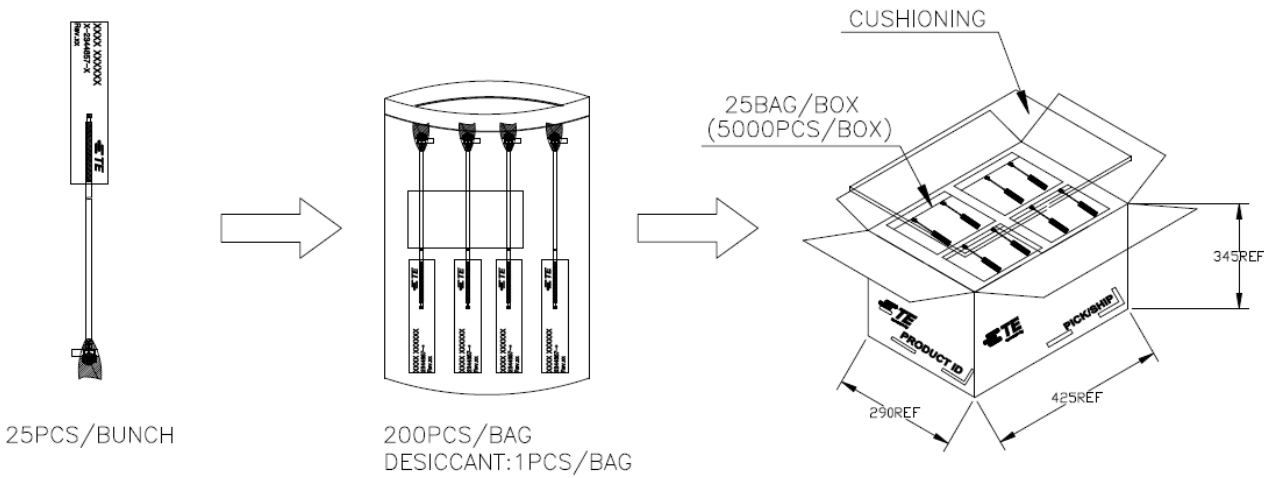


Dimension: mm
Diagrams is not into scale

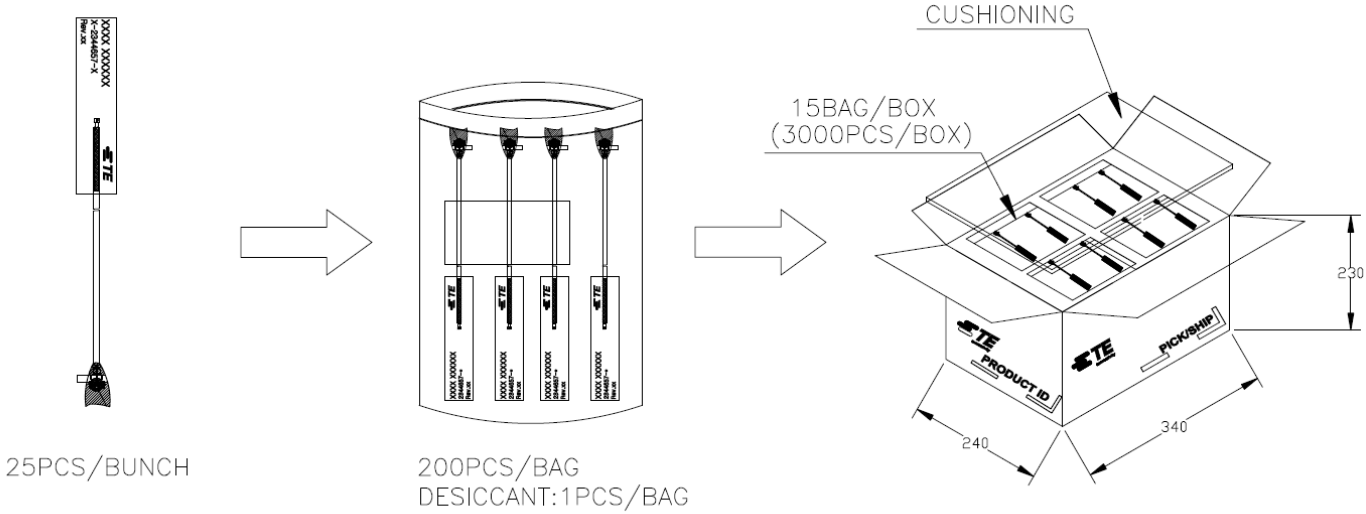
MATING COMPONENTS TO PART NUMBERS AND DIMENSIONS

2344657-1	50	1.97	1.13	MHF-TYPE PLUG	RECEPTACLE (TE PN: 2337019-1)	
2344657-2	100	3.94	1.13	MHF-TYPE PLUG	RECEPTACLE (TE PN: 2337019-1)	
2344657-3	150	5.91	1.13	MHF-TYPE PLUG	RECEPTACLE (TE PN: 2337019-1)	
2344657-4	200	7.87	1.13	MHF-TYPE PLUG	RECEPTACLE (TE PN: 2337019-1)	
2344657-9	250	9.84	1.13	MHF-TYPE PLUG	RECEPTACLE (TE PN: 2337019-1)	
1-2344657-3	300	11.81	1.13	MHF-TYPE PLUG	RECEPTACLE (TE PN: 2337019-1)	
2344657-5	50	1.97	0.81	MHF4-TYPE PLUG	RECEPTACLE (TE PN: 2334884-1)	
2344657-6	100	3.94	0.81	MHF4-TYPE PLUG	RECEPTACLE (TE PN: 2334884-1)	
2344657-7	150	5.91	0.81	MHF4-TYPE PLUG	RECEPTACLE (TE PN: 2334884-1)	
2344657-8	200	7.87	0.81	MHF4-TYPE PLUG	RECEPTACLE (TE PN: 2334884-1)	
1-2344657-1	300	11.81	0.81	MHF4-TYPE PLUG	RECEPTACLE (TE PN: 2334884-1)	
1-2344657-2	250	9.84	0.81	MHF4-TYPE PLUG	RECEPTACLE (TE PN: 2334884-1)	
1-2344657-4	330	12.99	0.81	MHF4-TYPE PLUG	RECEPTACLE (TE PN: 2334884-1)	
PART	MM	INCH	CABLE O.D	CONNECTOR TYPE	PART NUMBER	IMAGE
NUMBER	CABLE LENGTH ("A")		(B)	(ON CABLE)	MATING COMPONENTS	

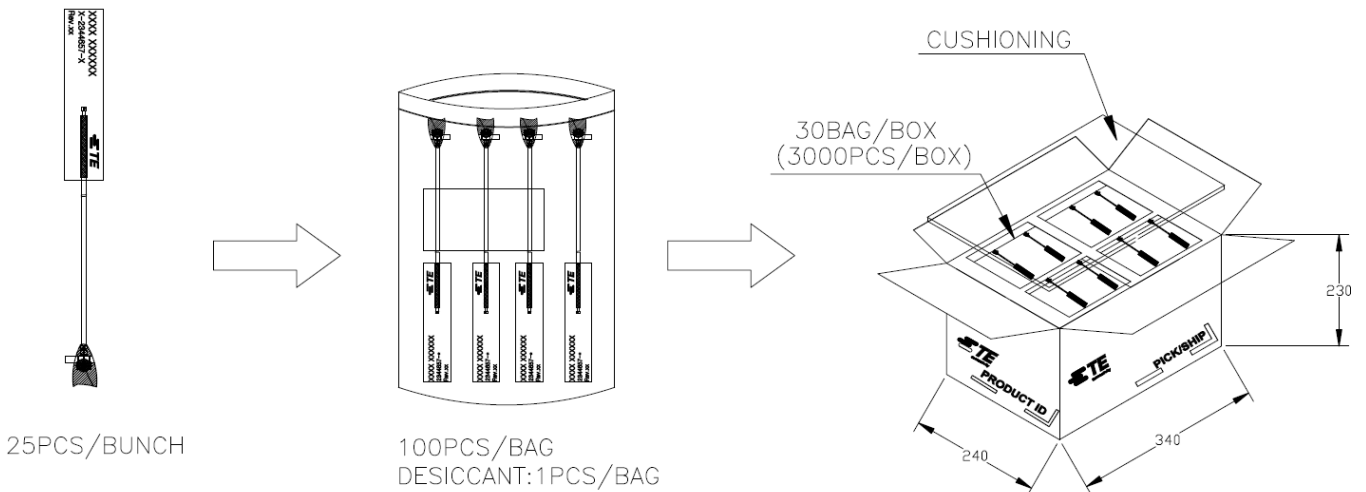
PACKAGING FOR 2344657-1, 2344657-2, 2344657-3, 2344657-4



PACKAGING FOR 2344657-5, 2344657-6, 2344657-7, 2344657-8



PACKAGING FOR 2344657-9, 1-2344657-1, 1-2344657-2, 1-2344657-3, 1-2344657-4



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