

Datasheet of SAW Diplexer

1511 GNSS

For GPS(L1) _GLONASS(G1)

For GPS(L5) _GALILEO(E5b) _GPS(L2)

For GPS(L6)

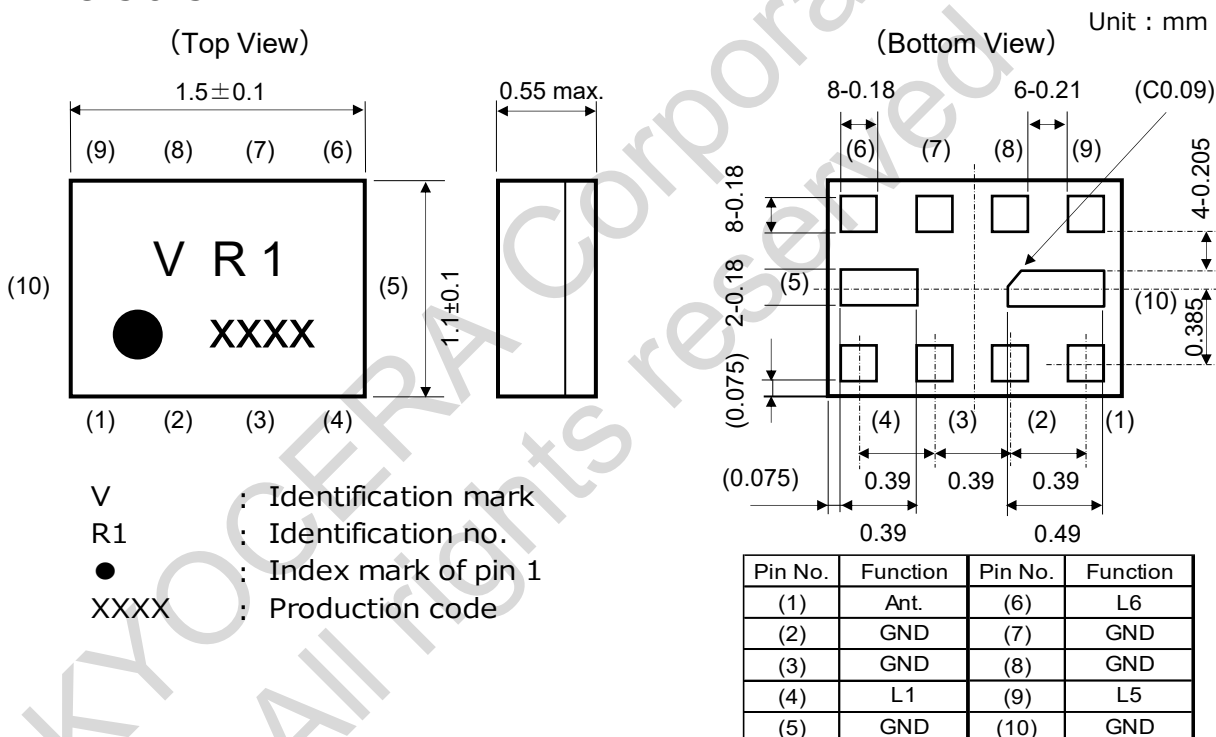
AEC-Q200 Grade2

KYOCERA Part No. : VF15-1197ZAUUD1

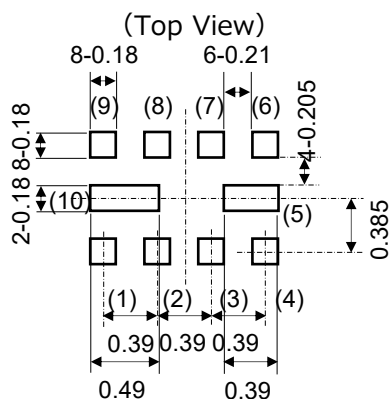
Rating

Items		Rating	Unit	Note
Operating Temperature Range		-40 to 105	deg.C	
Storage Temperature Range		-40 to 105	deg.C	
Max Input Power	Ant port	15	dBm	5,000Hours, Ta=50deg.C, CW
ESDLevel	Human Body Model	100	Volt	Complied to JESD22-A114
Ant Port Nominal Impedance		50//3.6nH	ohm	Unbalance
L1 Port Nominal Impedance		50//9.1nH	ohm	Unbalance
L5 Port Nominal Impedance		50//8.2nH	ohm	Unbalance
L6 Port Nominal Impedance		50//6.2nH	ohm	Unbalance
AEC-Q200		Grade2		Complied to AEC-Q200

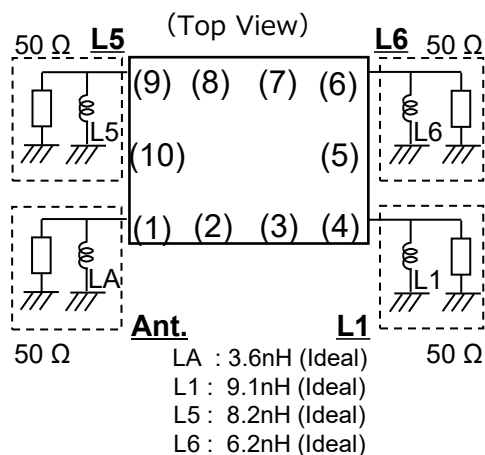
Dimensions



Recommendable Land Pattern



Measurement Circuit

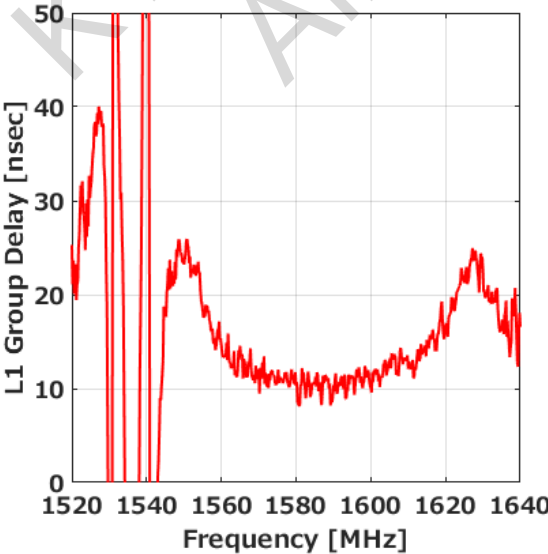
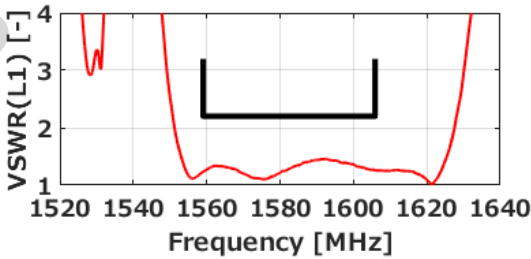
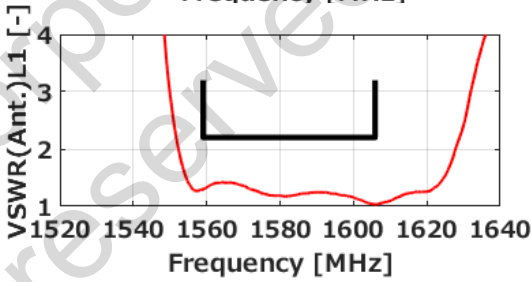
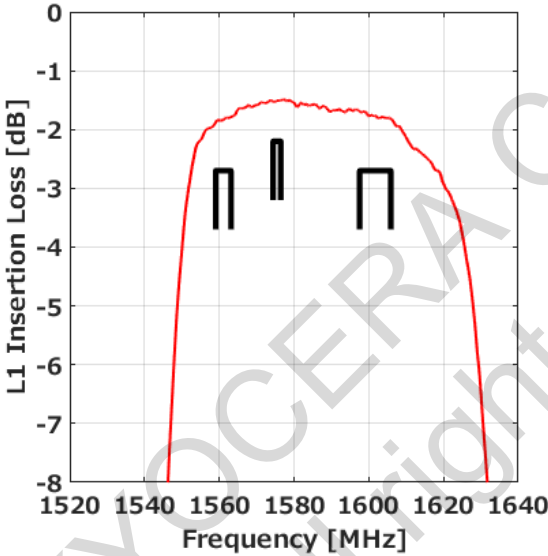
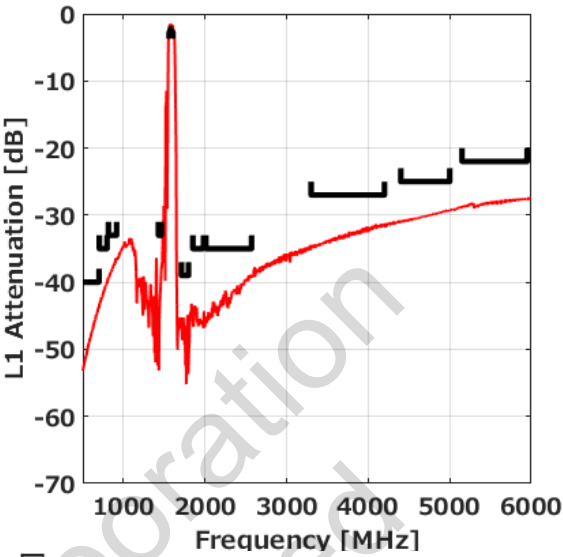
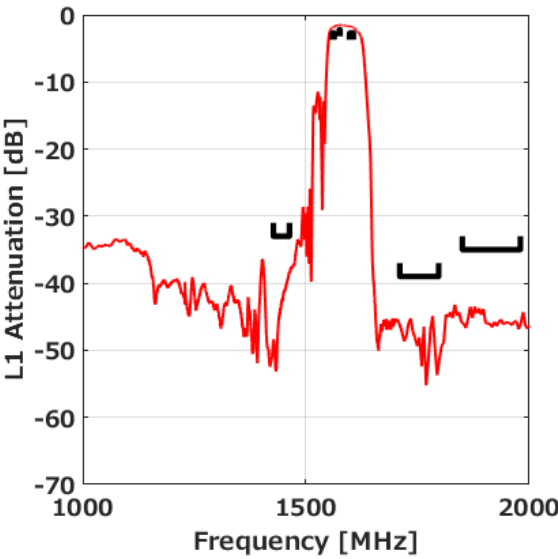


Electrical Characteristics

Items			Frequency[MHz]		Unit	Kyocera			Note	
						Specification				
						min	typ	max		
Ant-L1	Insertion Loss		1559.05	-	1563.15	dB	-	1.9	2.7	B1
			1574.39	-	1576.45	dB	-	1.5	2.2	L1
			1597.55	-	1605.89	dB	-	1.8	2.7	G1
	VSWR	Input	1559.05	-	1605.89	-	-	1.4	2.2	
		Output	1559.05	-	1605.89	-	-	1.5	2.2	
	Group Delay Ripple		1597.55	-	1605.89	ns	-	4	15	G1
	Attenuation		10	-	699	dB	40	44	-	
			703	-	798	dB	35	40	-	
			814	-	915	dB	33	36	-	
			1427	-	1463	dB	33	38	-	
			1710	-	1797	dB	39	45	-	
			1850	-	1980	dB	35	43	-	
			2010	-	2570	dB	35	39	-	
			3300	-	4200	dB	27	31	-	
4400			-	5000	dB	25	29	-		
5150			-	5950	dB	22	27	-		
Ant-L5	Insertion Loss		1166.22	-	1186.68	dB	-	1.1	2.5	L5
			1196.91	-	1217.37	dB	-	1.4	2.3	E5b
			1226.58	-	1228.62	dB	-	1.6	2.5	L2C
	VSWR	Input	1166.22	-	1186.68	-	-	1.5	2.2	L5
			1196.91	-	1217.37	-	-	1.6	2.2	E5b
			1226.58	-	1228.62	-	-	1.3	2.2	L2C
		Output	1166.22	-	1186.68	-	-	1.7	2.2	L5
			1196.91	-	1217.37	-	-	1.7	2.2	E5b
			1226.58	-	1228.62	-	-	1.4	2.2	L2C
	Group Delay Ripple		1166.22	-	1186.68	ns	-	11	25	L5
			1196.91	-	1217.37	ns	-	7	25	E5b
			1226.58	-	1228.62	ns	-	8	35	L2C
	Attenuation		650	-	850	dB	30	39	-	
			850	-	950	dB	25	36	-	
			1427	-	1463	dB	25	31	-	
			1626	-	1661	dB	24	27	-	
			1710	-	2200	dB	30	37	-	
2300			-	2690	dB	30	41	-		
3300			-	4200	dB	28	36	-		
4400			-	5000	dB	26	34	-		
5150			-	5950	dB	24	34	-		
Ant-L6	Insertion Loss		1257.75	-	1299.75	dB	-	1.5	2.3	L6
	VSWR	Input	1257.75	-	1299.75	-	-	1.6	2.2	L6
		Output	1257.75	-	1299.75	-	-	1.6	2.2	L6
	Group Delay Ripple		1257.75	-	1299.75	ns	-	12	30	L6
	Attenuation		650	-	850	dB	30	39	-	
			850	-	950	dB	25	35	-	
			1427	-	1463	dB	25	40	-	
			1626	-	1661	dB	25	33	-	
			1710	-	2200	dB	25	31	-	
			2300	-	2690	dB	30	43	-	
3300			-	4200	dB	27	43	-		
4400			-	5000	dB	25	42	-		
5150	-	5950	dB	22	40	-				

Electrical Characteristics L1(1.5GHz)

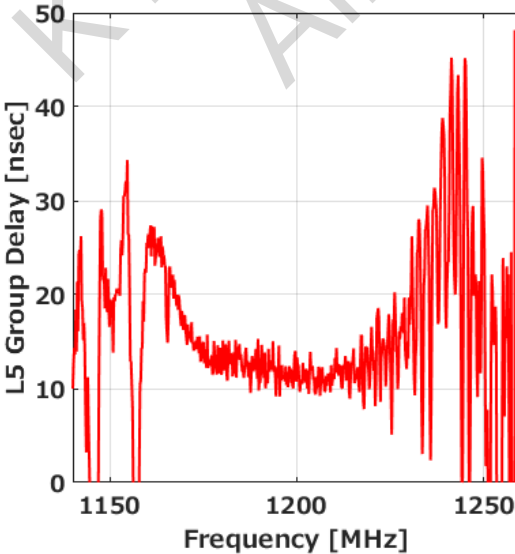
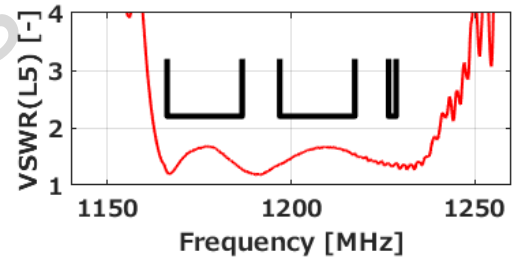
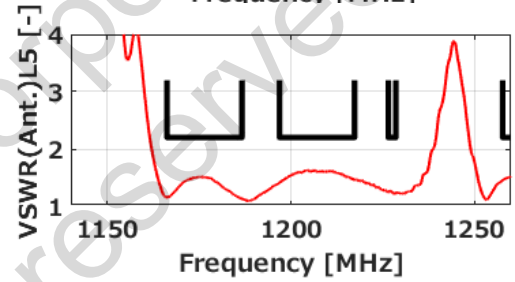
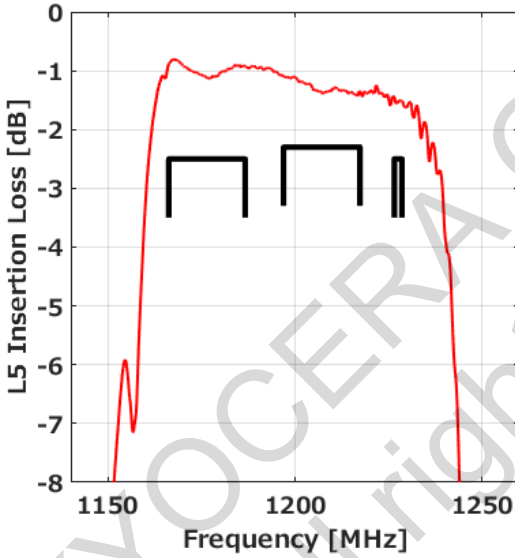
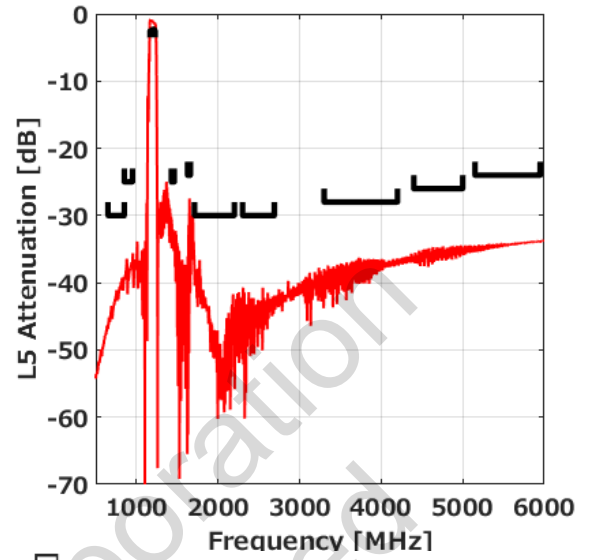
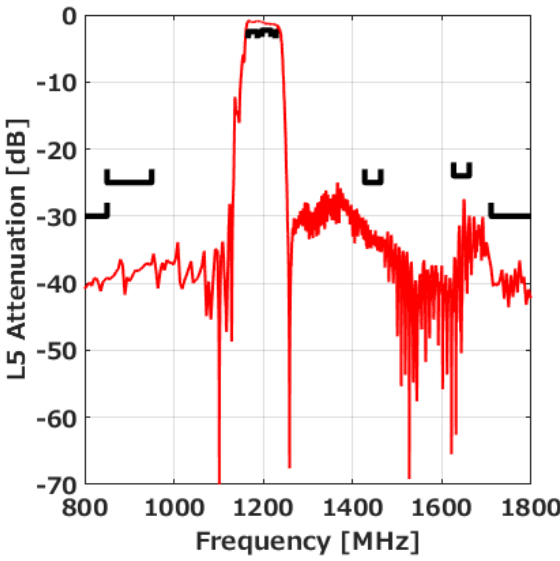
— VF15-1197ZAUUD1
— Specification



Electrical Characteristics

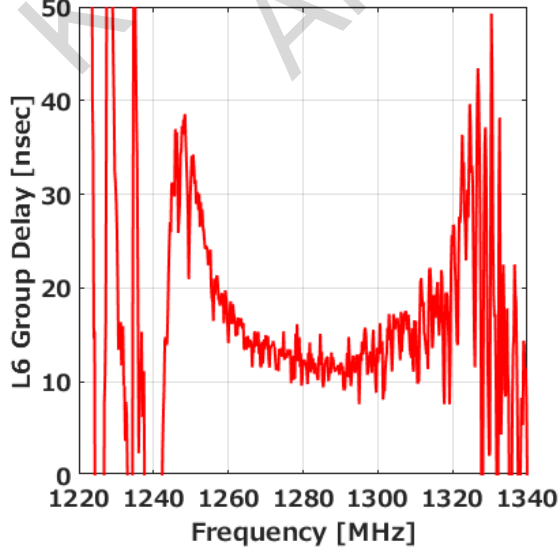
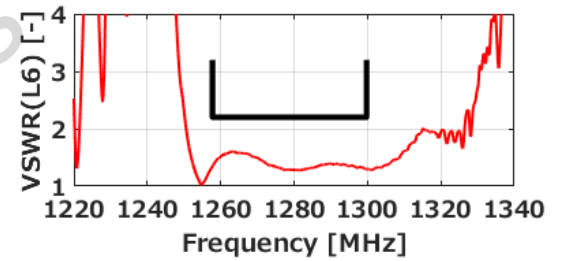
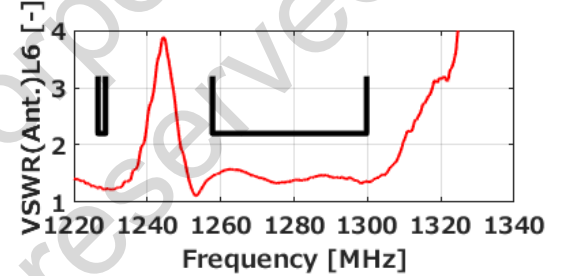
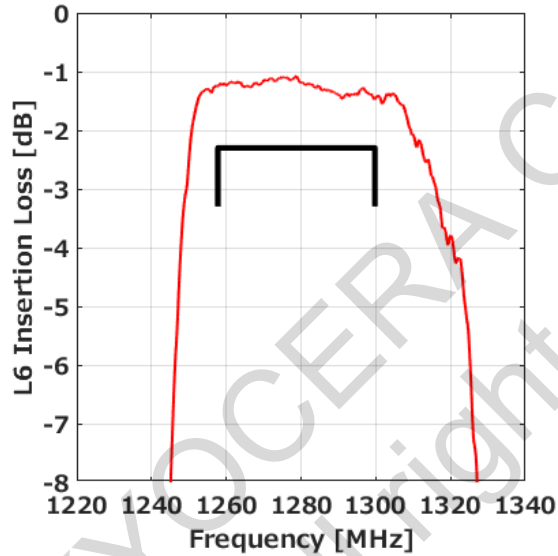
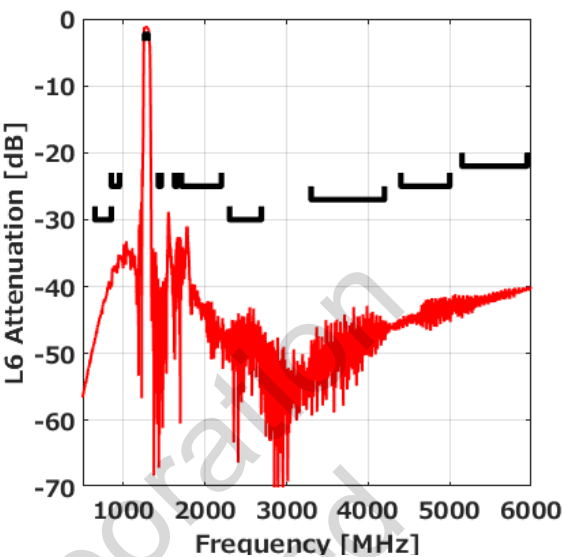
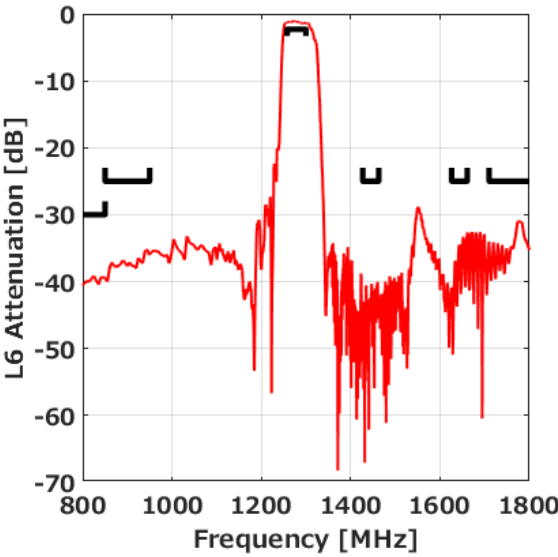
L5(1.1GHz)

— VF15-1197ZAUUD1
— Specification



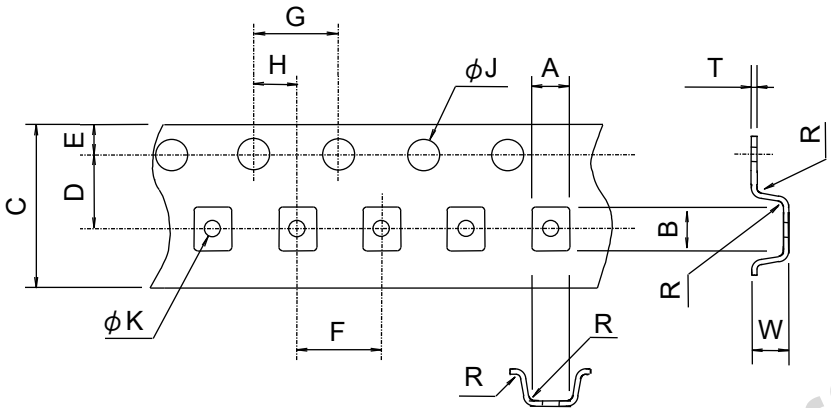
Electrical Characteristics L6(1.2GHz)

— VF15-1197ZAUUD1
— Specification



Tape & Reel Specification

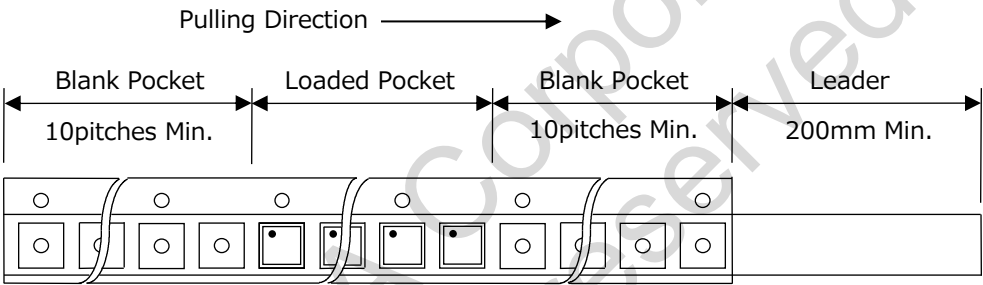
[Tape]



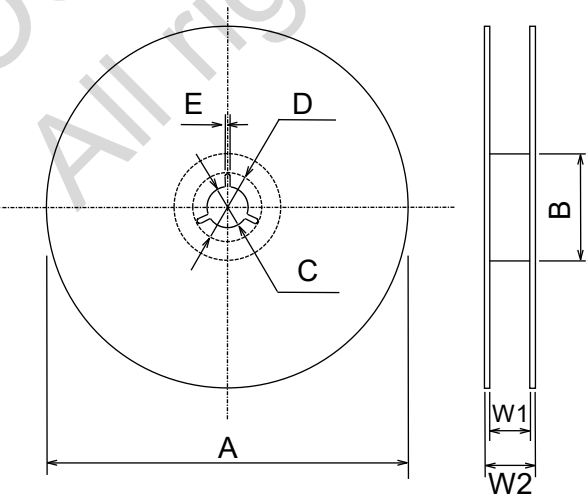
Unit : mm

Part	Dimension
A	1.4+0/-0.1
B	1.8±0.1
C	8.0±0.1
D	3.50±0.05
E	1.75±0.10
F	4.0±0.1
G	4.0±0.1
H	2.00±0.05
φJ	1.50+0.1/-0
φK	0.50±0.10
R	0.2 Max
W	0.70±0.1
T	0.20±0.05

W : Dimension is depth of pockets.



[Reel]



Part	A	B	C	D
Dimension	180 +0/-1.5	60 +1.0/-0	13 ± 0.2	21 ± 0.8
Part	E	W1	W2	
Dimension	2 ± 0.5	9.0 +1.0/-0	11.4 ± 1.0	

Unit : mm

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