

A FEATURES

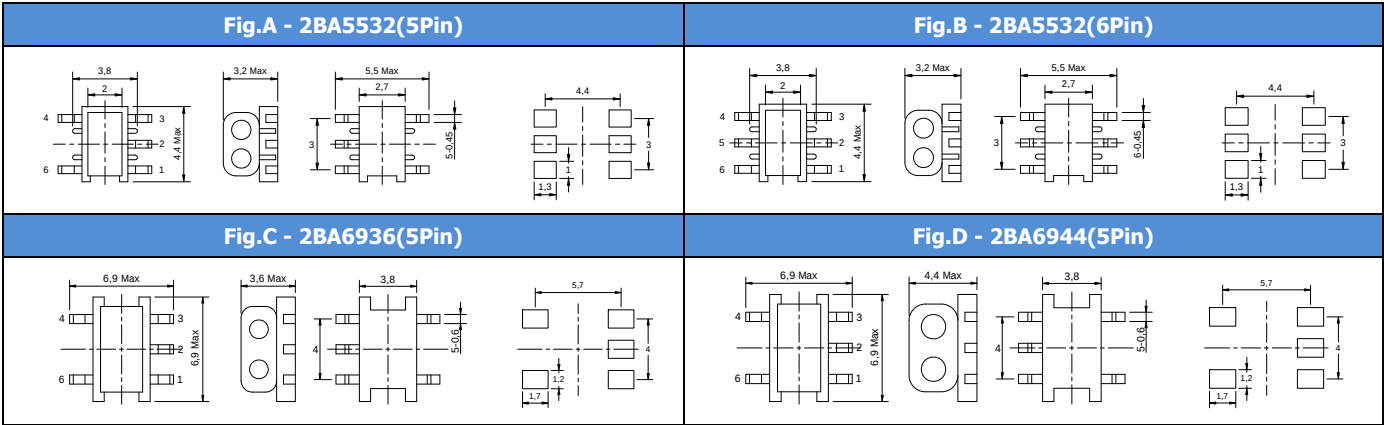
- Operating Temperature range from -40°C to +105°C (Including Self-heating)
- Base pins are end processed to allow direct mounting on PCB.
- Ideal for use in double balanced mixers/band transformers/transistors/impedance conversion.



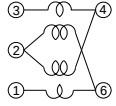
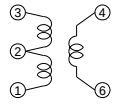
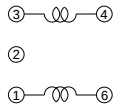
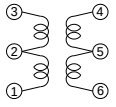
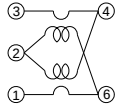
B PART NUMBER SYSTEM

<u>2BA</u>	<u>5532</u>	<u>A</u>	-	<u>02</u>	<u>F</u>
①	②	③		④	⑤
①	Series		②	Dimension Code (L*W*H) (mm)	
2BA	Series Code			5532 (5.5×4.4×3.2)	6936 (6.9×6.9×3.6)
				6944 (6.9×6.9×4.4)	
③	Internal connection Code		④	Turns Code	
	Refer to connection drawings			Refer to Specifications	
⑤	RoHS Compliant				

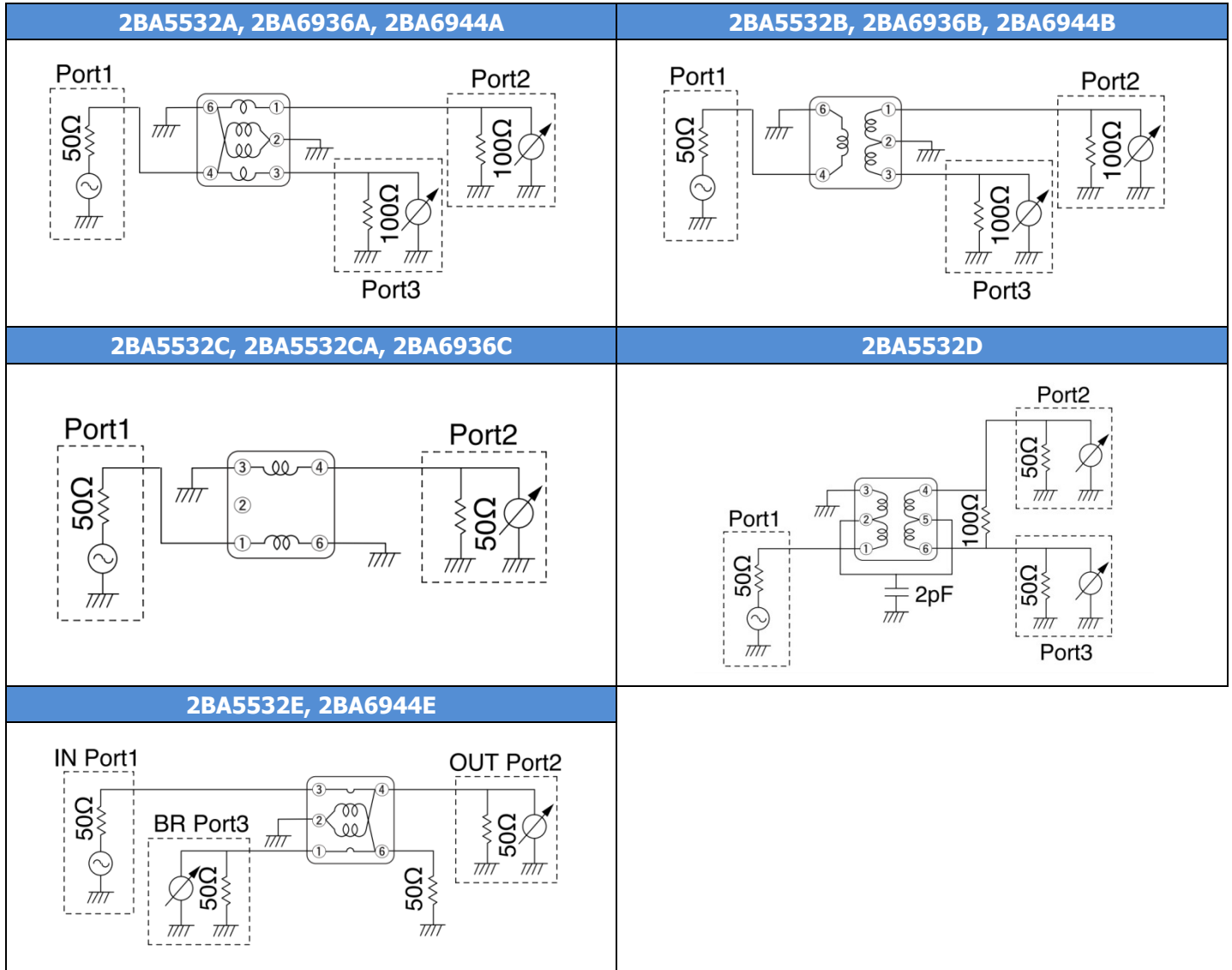
C DRAWINGS AND DIMENSIONS



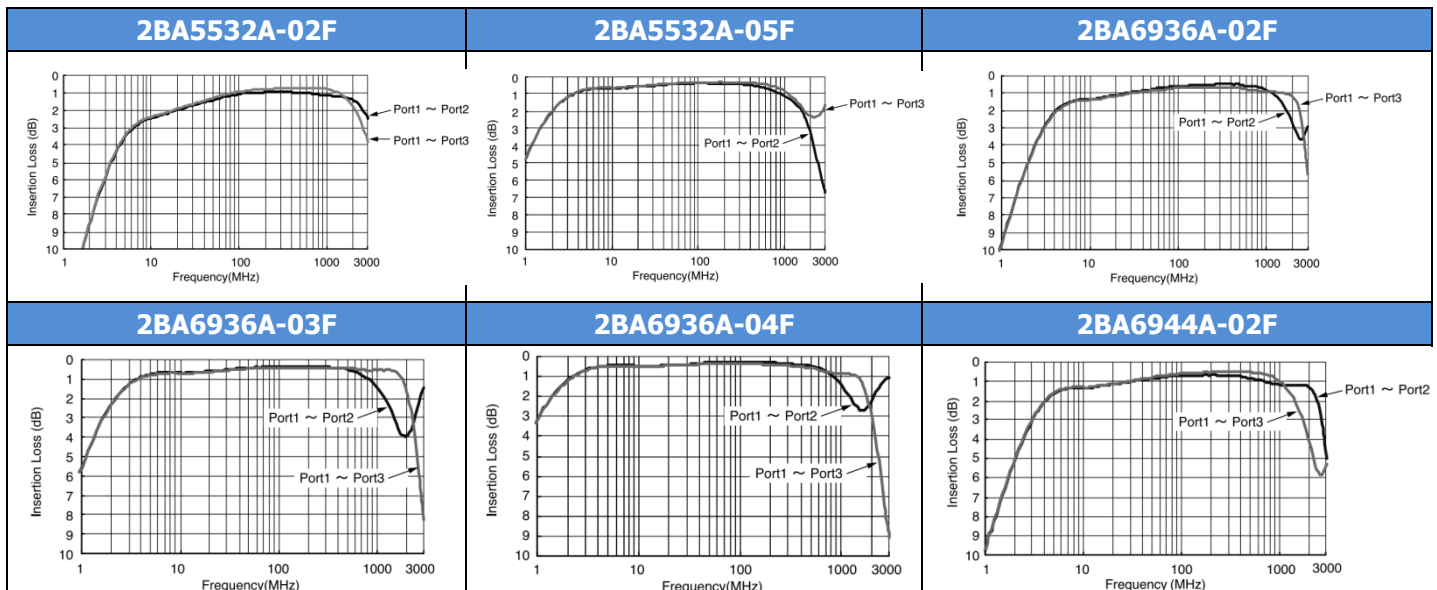
D SPECIFICATIONS

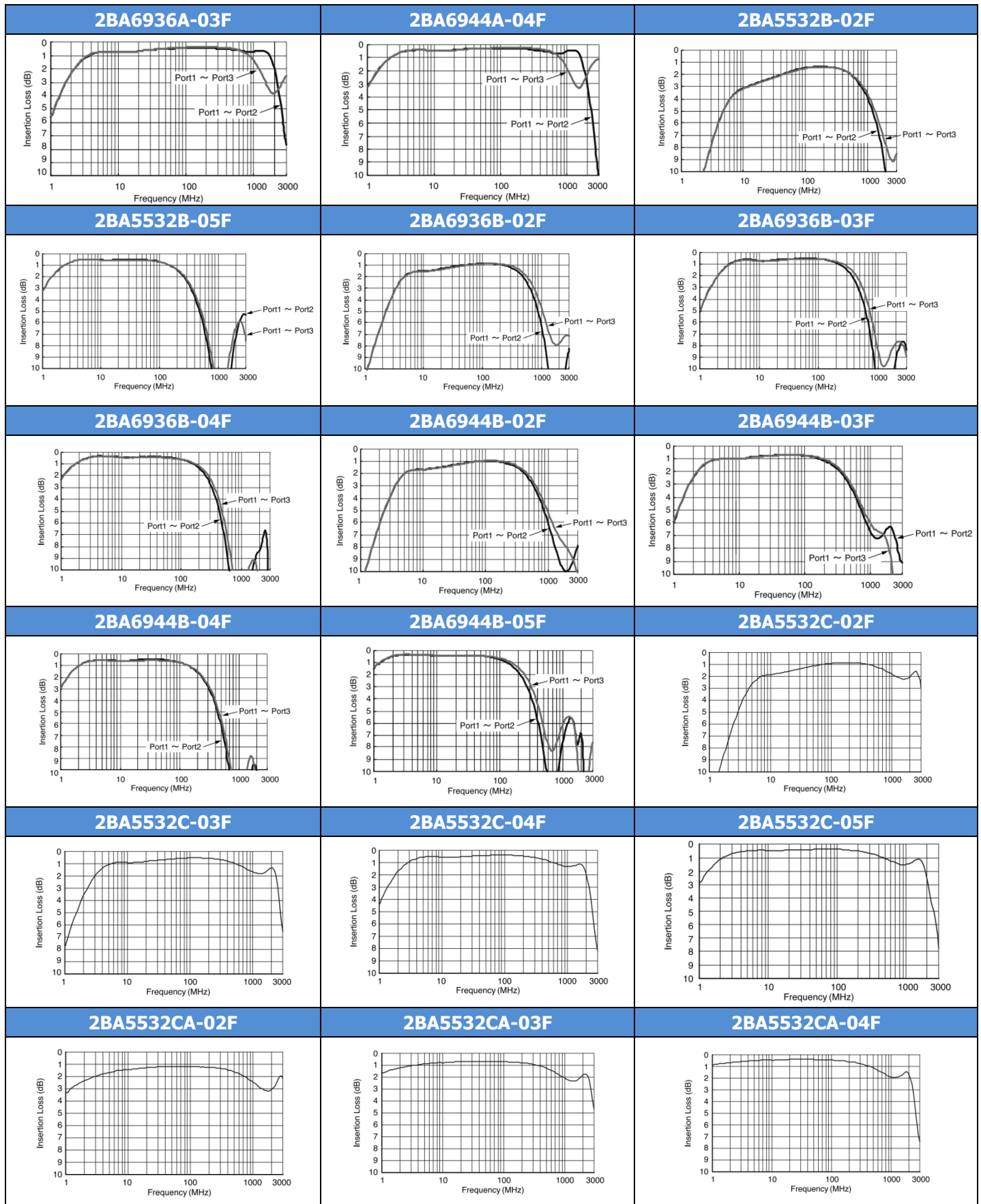
Winding						
Part Number	Conection detail	Turns	μiac	Applications	Drawing Fig.	Conection
2BA5532A-02F	1-6=2-4=2-6=3-4	2.5 T	300	Transformer for Frequency Mixer	A	
2BA5532A-03F	1-6=2-4=2-6=3-4	3.5 T	300	Transformer for Frequency Mixer	A	
2BA5532A-04F	1-6=2-4=2-6=3-4	4.5 T	300	Transformer for Frequency Mixer	A	
2BA5532A-05F	1-6=2-4=2-6=3-4	5.5 T	300	Transformer for Frequency Mixer	A	
2BA6936A-02F	1-6=2-4=2-6=3-4	2.5 T	300	Transformer for Frequency Mixer	C	
2BA6936A-03F	1-6=2-4=2-6=3-4	3.5 T	300	Transformer for Frequency Mixer	C	
2BA6936A-04F	1-6=2-4=2-6=3-4	4.5 T	300	Transformer for Frequency Mixer	C	
2BA6944A-02F	1-6=2-4=2-6=3-4	2.5 T	300	Transformer for Frequency Mixer	D	
2BA6944A-03F	1-6=2-4=2-6=3-4	3.5 T	300	Transformer for Frequency Mixer	D	
2BA6944A-04F	1-6=2-4=2-6=3-4	4.5 T	300	Transformer for Frequency Mixer	D	
2BA5532B-02F	1-2=2-3=4-6	2 T	300	Transformer for Frequency Mixer	A	
2BA5532B-03F	1-2=2-3=4-6	3 T	300	Transformer for Frequency Mixer	A	
2BA5532B-04F	1-2=2-3=4-6	4 T	300	Transformer for Frequency Mixer	A	
2BA5532B-05F	1-2=2-3=4-6	5 T	300	Transformer for Frequency Mixer	A	
2BA6936B-02F	1-2=2-3=4-6	2 T	300	Transformer for Frequency Mixer	C	
2BA6936B-03F	1-2=2-3=4-6	3 T	300	Transformer for Frequency Mixer	C	
2BA6936B-04F	1-2=2-3=4-6	4 T	300	Transformer for Frequency Mixer	C	
2BA6944B-02F	1-2=2-3=4-6	2 T	300	Transformer for Frequency Mixer	D	
2BA6944B-03F	1-2=2-3=4-6	3 T	230	Transformer for Frequency Mixer	D	
2BA6944B-04F	1-2=2-3=4-6	4 T	230	Transformer for Frequency Mixer	D	
2BA6944B-05F	1-2=2-3=4-6	5 T	230	Transformer for Frequency Mixer	D	
2BA6944B-0306F	1-2=2-3;4-6	3T;6T	230	Transformer for Frequency Mixer	D	
2BA5532C-02F	1-6=3-4	2.5 T	300	Balun Transformer	A	
2BA5532C-03F	1-6=3-4	3.5 T	300	Balun Transformer	A	
2BA5532C-04F	1-6=3-4	4.5 T	300	Balun Transformer	A	
2BA5532C-05F	1-6=3-4	5.5 T	300	Balun Transformer	A	
2BA5532CA-02F	1-6=3-4	2.5 T	1500	Balun Transformer	A	
2BA5532CA-03F	1-6=3-4	3.5 T	1500	Balun Transformer	A	
2BA5532CA-04F	1-6=3-4	4.5 T	1500	Balun Transformer	A	
2BA5532CA-05F	1-6=3-4	5.5 T	1500	Balun Transformer	A	
2BA6936C-02F	1-6=3-4	2.5 T	300	Balun Transformer	C	
2BA6936C-03F	1-6=3-4	3.5 T	300	Balun Transformer	C	
2BA6936C-04F	1-6=3-4	4.5 T	300	Balun Transformer	C	
2BA6936C-05F	1-6=3-4	5.5 T	300	Balun Transformer	C	
2BA5532D-0302F	1-2;2-3;4-5=5-6	1T;3T;2T	300	Distributor	B	
2BA5532D-0403F	1-2;2-3;4-5=5-6	1T;3T;2T	300	Distributor	B	
2BA5532DA-0302F	1-2;2-3;4-5=5-6	1T;3T;2T	1500	Distributor	B	
2BA5532DA-0403F	1-2;2-3;4-5=5-6	1T;3T;2T	1500	Distributor	B	
2BA5532E-02F	1-6=3-4;2-4=2-6	0.5T;2.5T	300	Splitters, Directional Coupler	A	
2BA5532E-03F	1-6=3-4;2-4=2-6	0.5T;3.5T	300	Splitters, Directional Coupler	A	
2BA5532E-04F	1-6=3-4;2-4=2-6	0.5T;4.5T	300	Splitters, Directional Coupler	A	
2BA5532E-05F	1-6=3-4;2-4=2-6	0.5T;5.5T	300	Splitters, Directional Coupler	A	
2BA6944E-03F	1-6=3-4;2-4=2-6	0.5T;3.5T	300	Splitters, Directional Coupler	D	
2BA6944E-04F	1-6=3-4;2-4=2-6	0.5T;4.5T	300	Splitters, Directional Coupler	D	
2BA6944E-05F	1-6=3-4;2-4=2-6	0.5T;5.5T	300	Splitters, Directional Coupler	D	

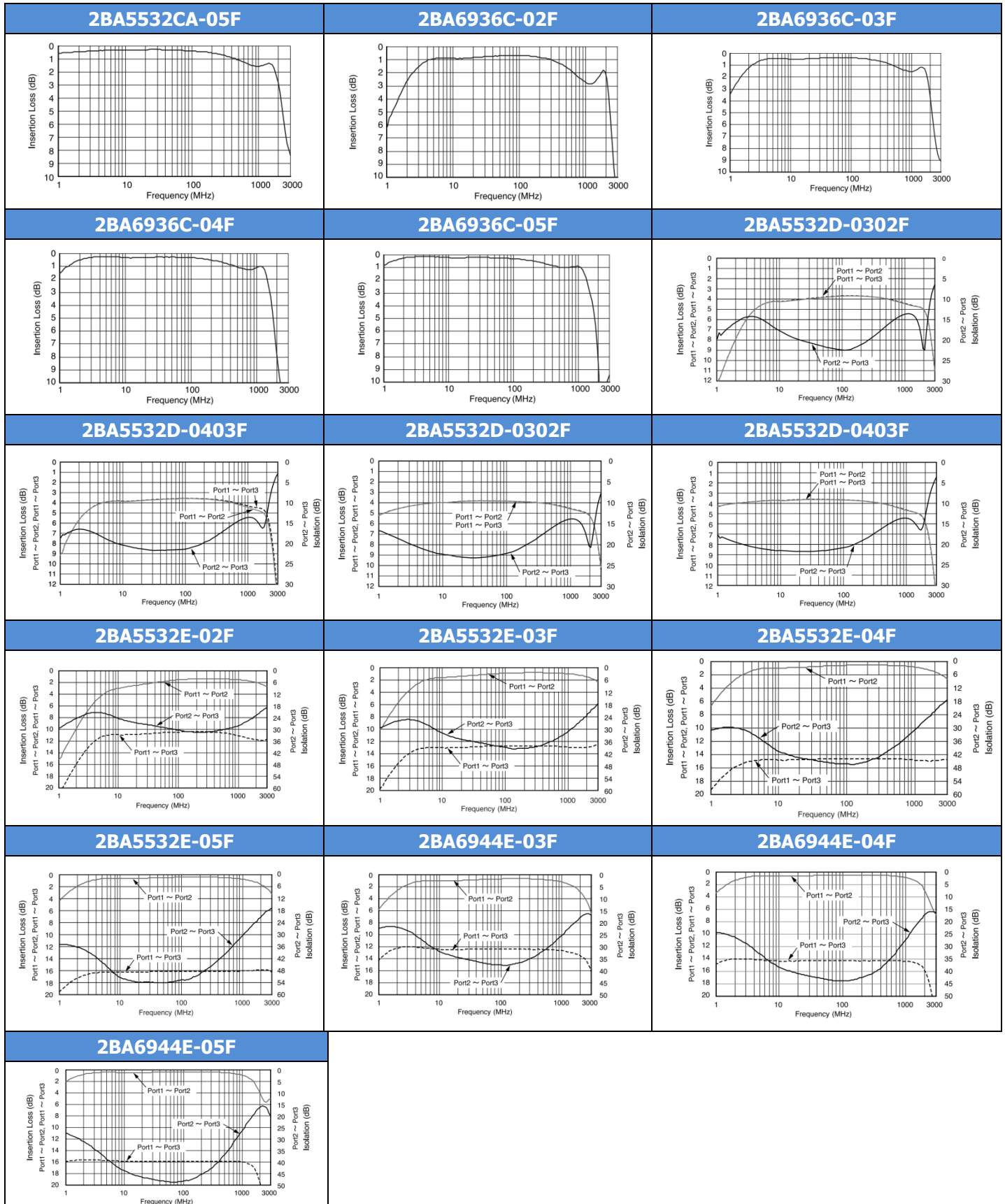
E Test Circuits

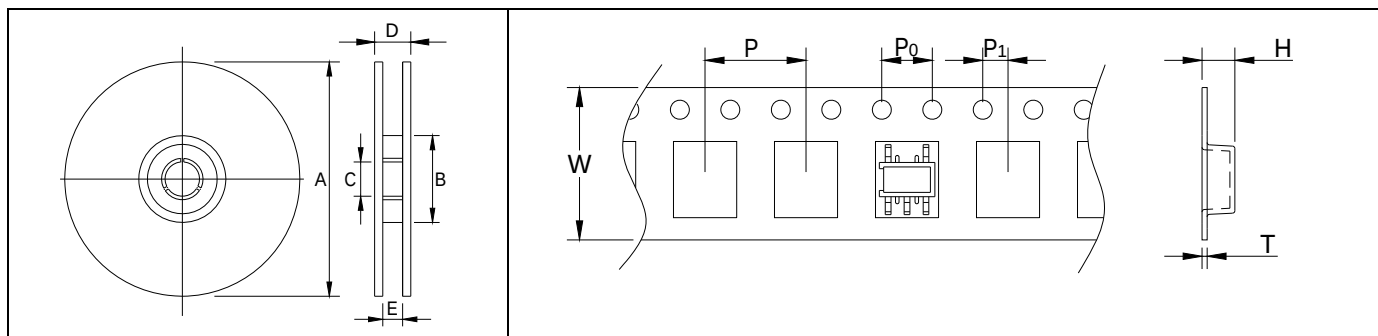


F Typical Curves

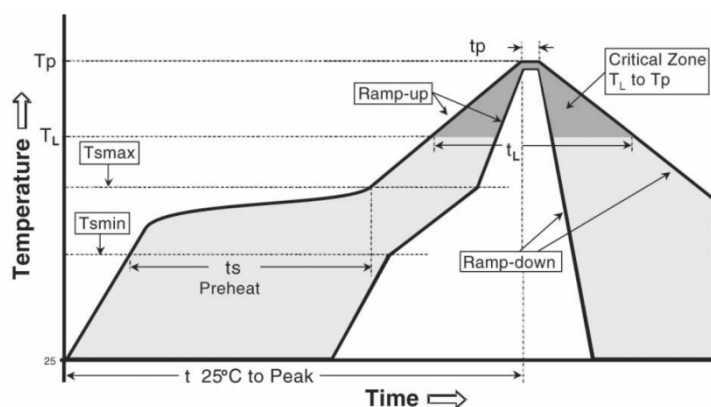






G TAPE AND REEL SPECIFICATIONS

Case Size	Parts per Reel	Reel Dimensions(REF)					Tape Dimensions(REF)					
		A	B	C	D	E	W	P	P ₀	P ₁	H	T
2BA5532	2000	330	100	13	19	12.4	12	8	4	2	4.0	0.4
2BA6936	1000	330	100	13	19	12.4	12	12	4	2	4.0	0.4
2BA6944	1000	330	100	13	19	12.4	12	12	4	2	5.0	0.4

F RECOMMENDED SOLDERING PROFILE

Profile Feature	Recommended Conditions
Average ramp-up rate (T _{smax} to T _p)	3°C/second max.
Preheat	
Temperature Min (T _{smin})	100°C
Temperature Max (T _{smax})	150°C
Time (T _{smin} to T _{smax})(ts)	60-180 seconds
Time maintained above:	
Temperature (T _L)	217°C
Time (t _L)	60-150 seconds
Peak Temperature (T _p)	See Table2
Time within 5°C of actual Peak Temperature (tp) ²	20-40 seconds
Ramp-down Rate	6°C/second max.
Time 25°C to Peak Temperature	8 minutes max

Table 1

Package Thickness	Volume mm ³ <350	Volume mm ³ 350 - 2000	Volume mm ³ >2000
< 1.6mm	260°C	260°C	260°C
1.6mm - 2.5mm	260°C	250°C	245°C
>2.5mm	250°C	245°C	245°C

Table 2

1. The above profiles are based on IPC/JEDEC J-STD-020C.
2. Exceeding these conditions may cause lowered product reliability.