

NWT Series Network Transformer



FEATURES

- Low insertion loss, high return loss.
- Small volume and surface sticker structure can be achieved using high frequency.
- No need for grounding and greater circuit design flexibility.
- Operating temperature range: -55°C ~ 125°C

APPLICATIONS

- Widely used in ADSL, VDSL, .Wireless broadband, Ethernet, high-speed Lan.

Widely used in T1/E1/CEPT/ISDN-Pri, T3/DS3/E3/STS-1/ISDNS, ISDNU, Set-top boxes and Military radar

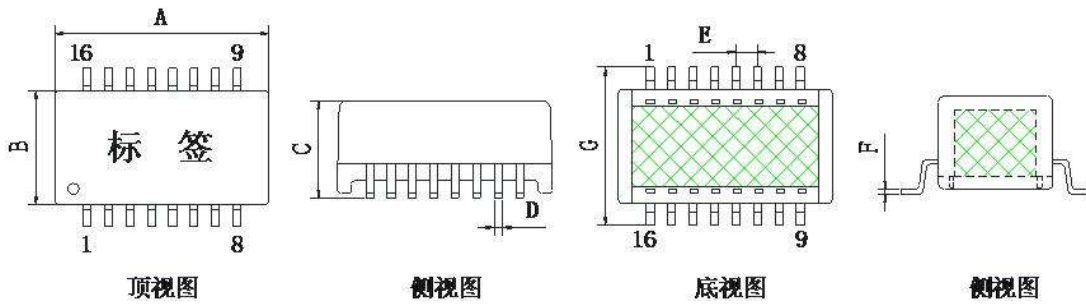
PRODUCT IDENTIFICATION

$\frac{\text{NWT}}{\text{①}} \quad \frac{130706}{\text{②}} \quad - \quad \frac{1}{\text{③}} \quad - \quad \frac{\text{A}}{\text{④}}$

- ① Series name
- ② Dimensions: 130706 Length (L) 13mm×Width (W) 7mm×High(H)6mm
- ③ Structure type
- ④ Packing style: A: Encapsulated; B:Molded

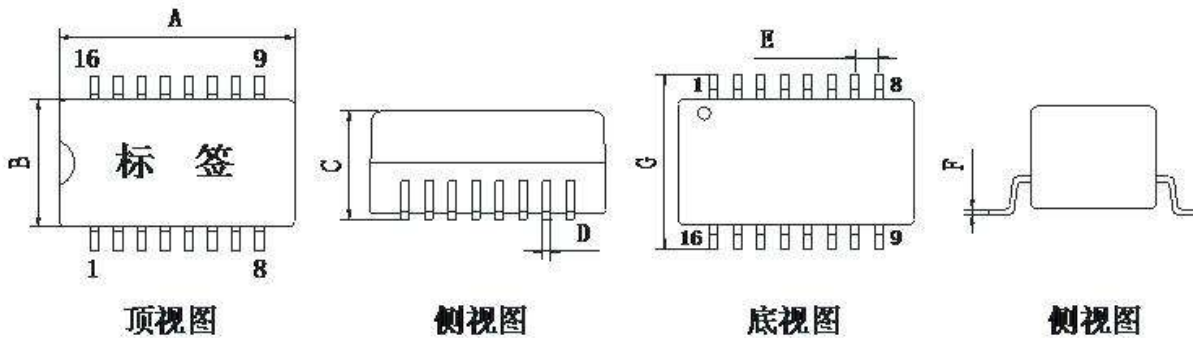
SHAPE AND DIMENSIONS

● NWT130706、NWT120906



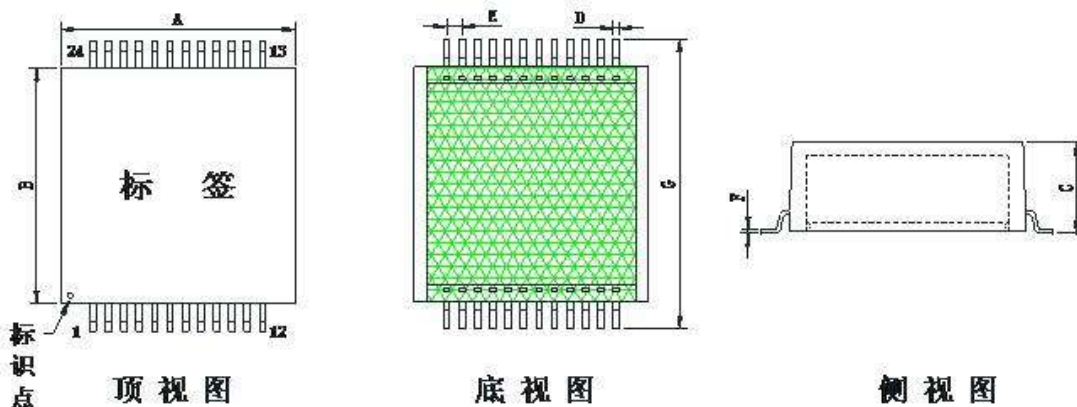
Part Number	Dimensions (mm)						
	A	B	C	D	E	F	G
NWT130706	12.70±0.50	6.80±0.30	5.80±0.25	0.48±0.08	1.27±0.10	0.25 ^{+0.08} _{-0.02}	9.60±0.50
NWT120906	12.50±0.50	6.80±0.30	5.60±0.25	0.48±0.08	1.27±0.10	0.25 ^{+0.08} _{-0.02}	9.50±0.50

● NWT130705



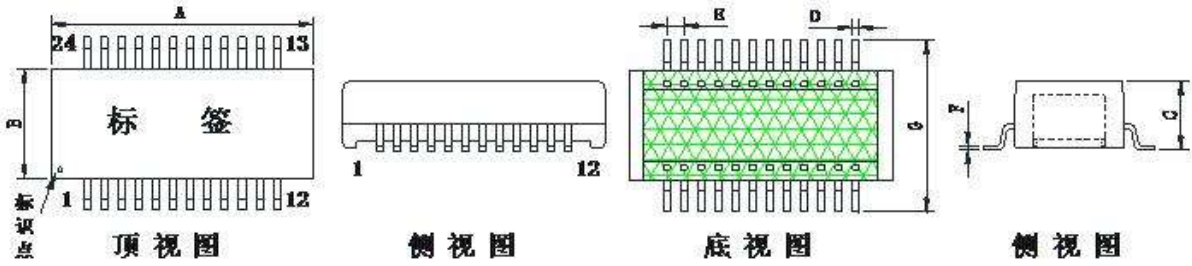
Part Number	Dimensions (mm)						
	A	B	C	D	E	F	G
NWT130705	12.80±0.50	6.95±0.30	4.60±0.25	0.48±0.08	1.27±0.10	0.25 ^{+0.08} _{-0.02}	9.60±0.50

● NWT141606



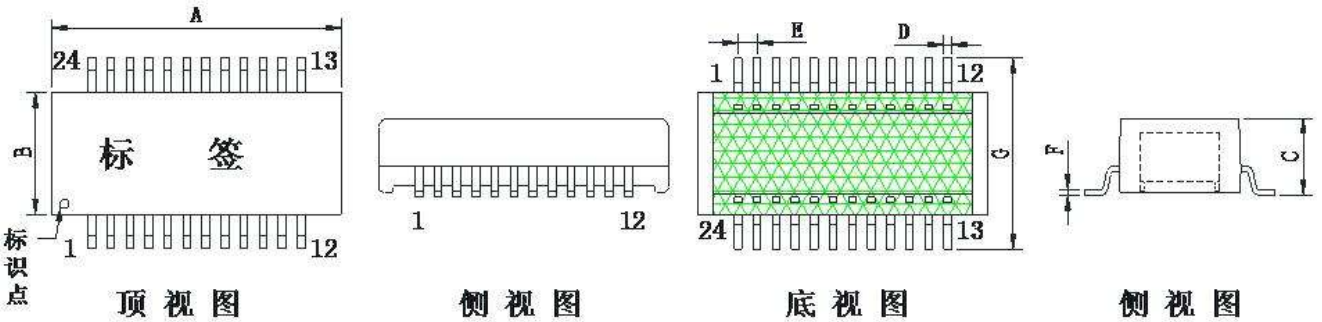
Part Number	Dimensions (mm)						
	A	B	C	D	E	F	G
NWT141606	13.3±0.5	15.2±0.5	6.05±0.25	0.45±0.07	1.00±0.10	0.25 ^{+0.08} _{-0.02}	18.9±0.5

● NWT150704



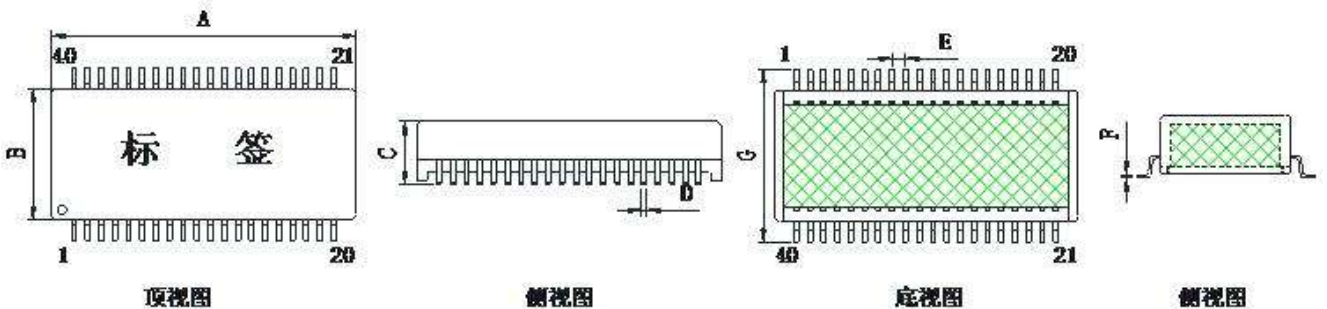
Part Number	Dimensions (mm)						
	A	B	C	D	E	F	G
NWT150704	15.1±0.3	7.0±0.3	4.0±0.2	0.40±0.08	1.00±0.10	0.32±0.10	10.2±0.5

● NWT181306



Part Number	Dimensions (mm)						
	A	B	C	D	E	F	G
NWT181306	17.6±0.5	12.0±0.5	5.85±0.25	0.48±0.08	1.27±0.10	0.25 ^{+0.08} _{-0.02}	16.25±0.50

● NWT281206-1-A

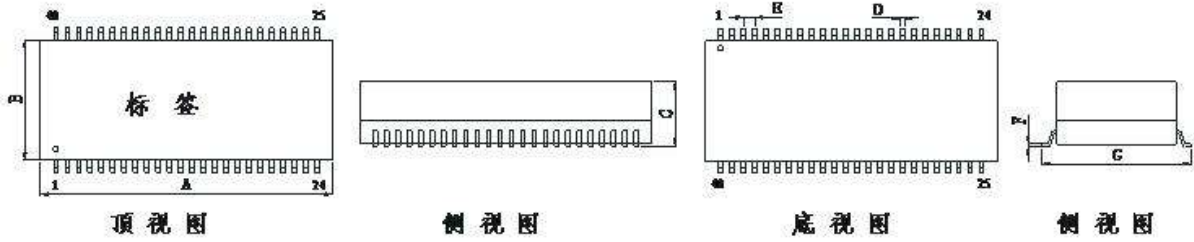


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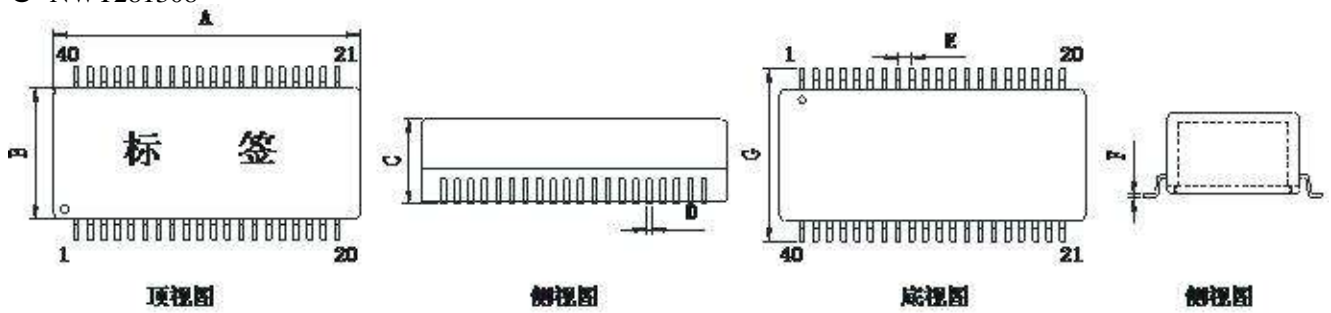
Part Number	Dimensions (mm)						
	A	B	C	D	E	F	G
NWT281206-1-A	28.20±0.50	12.15±0.30	5.60±0.20	0.48±0.08	1.27±0.10	0.25 ^{+0.08} _{-0.02}	16.3±0.5

● NWT281207



Part Number	Dimensions (mm)						
	A	B	C	D	E	F	G
NWT281207	28.0±0.5	12.3±0.3	7.28±0.3	0.40±0.05	1.02±0.10	0.25 ^{+0.08} _{-0.02}	15.5±0.5

● NWT281308



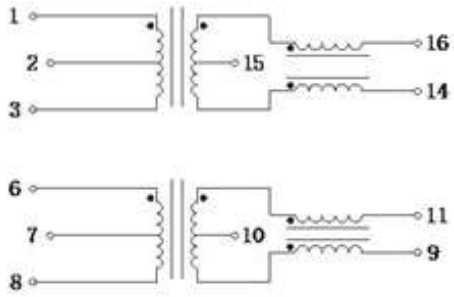
Part Number	Dimensions (mm)						
	A	B	C	D	E	F	G
NWT281308	27.7±0.5	13.4±0.3	8.0±0.3	0.48±0.08	1.27±0.10	0.25 ^{+0.08} _{-0.02}	16.3±0.5



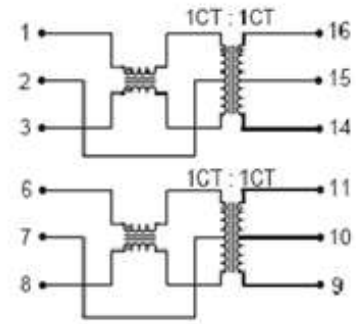
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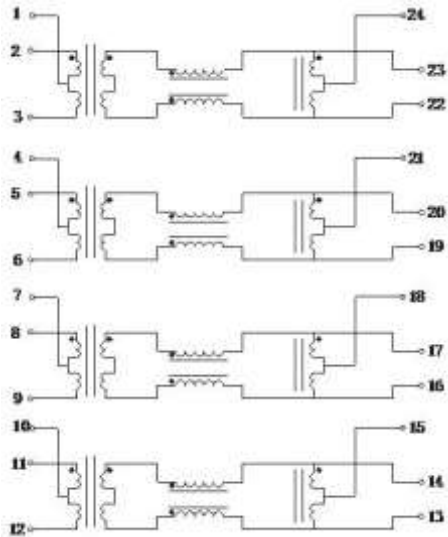
Schematic diagram



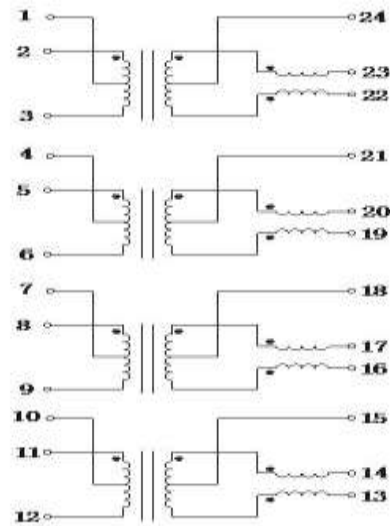
NWT130706 and NWT130705



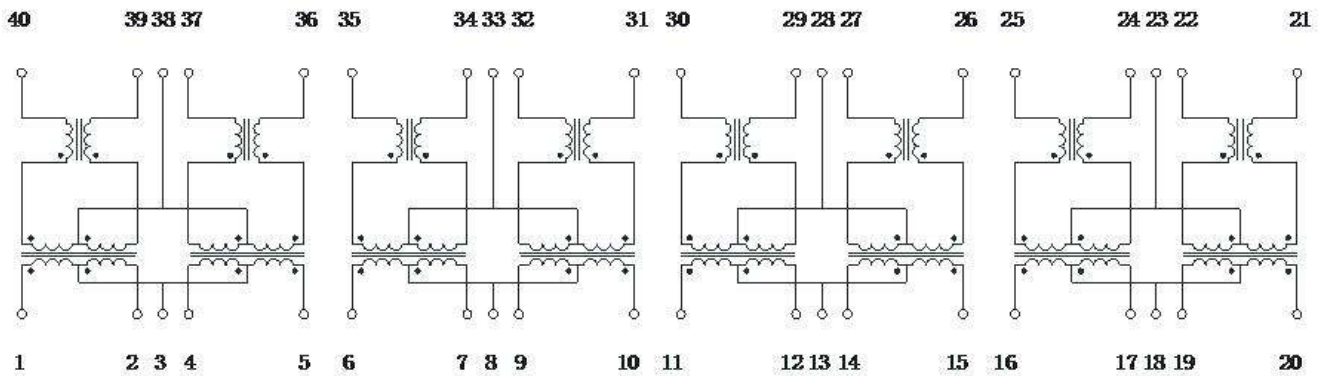
NWT120906



NWT141606-1-A and NWT181306-2-A



NWT181306-1-A, NWT150704-2- and NWT141606-2-A

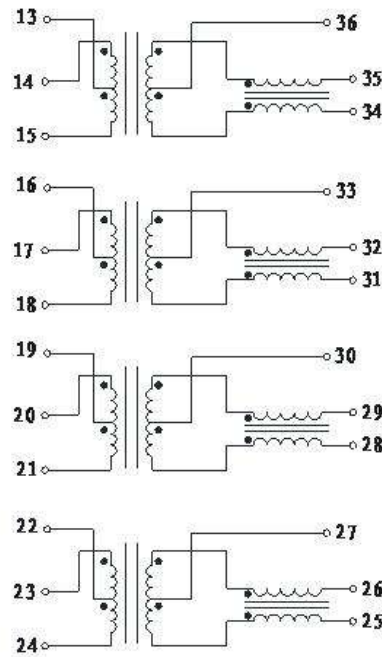
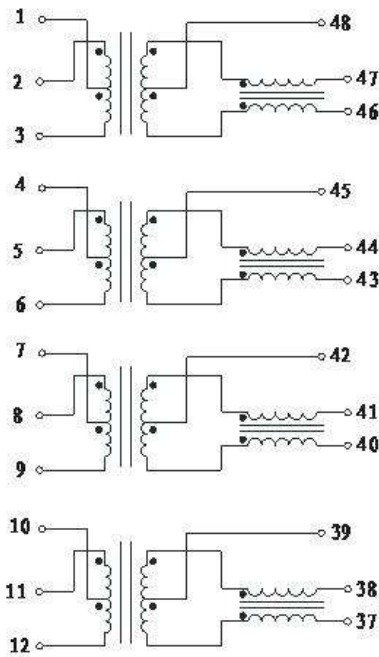


NWT281206-1 and NWT281308-1



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NWT281207-1-C

SPECIFICATIONS

● NWT130706、NWT120906 TYPE

Part Number	Turn Ratio	Insertion Loss 0.1~100 (MHz) (dBmax)	Return Loss (dBmin)			Common mode rejection ratio (dBmin)			Cross Interference (dBmin)			Withstand Voltage (Vrms) AC 2mA, 60s
			30 (MHz)	60 (MHz)	80 (MHz)	30 (MHz)	50 (MHz)	100 (MHz)	30 (MHz)	60 (MHz)	100 (MHz)	
NWT130706-1-A	1:1	1.1	20	14	11.5	42	37	33	45	40	35	1500
NWT130706-2-A			20	14	12	42	37	32	45	40	35	
NWT130706-3-A			20	14	12	42	37	32	45	40	35	
NWT130705-1-C			20	14	11.5	42	37	33	45	40	35	
NWT130705-2-C			20	14	12	42	37	32	45	40	35	
NWT130705-3-C			20	14	12	42	37	32	45	40	35	
NWT120906-1-A			18	12	12	40	40	40	55	45	35	
NWT130706-1-B			20	14	11.5	42	37	33	45	40	35	
NWT130706-2-B			20	14	12	42	37	32	45	40	35	
NWT130706-3-B			20	14	12	42	37	32	45	40	35	
NWT120906-1-B			18	12	12	40	40	40	55	45	35	

● NWT141606 、NWT150704、NWT181306 TYPE



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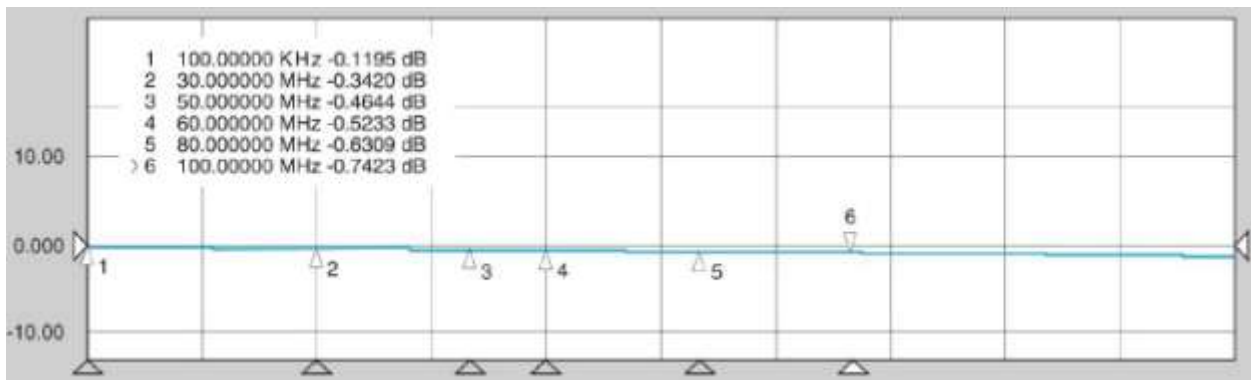
Part Number	Turn Ratio	Insertion Loss 0.1~100 (MHz) (dBmax)	Return Loss (dBmin)				Common mode rejection ratio (dBmin)			Cross Interference (dBmin)			Withstand Voltage (Vrms) AC 2mA, 60s
			30	60	80	10	30	50	100	30	60	100	
NWT141606-1-A	1:1	1.0	18	16	12	10	38	33	28	43	37	33	1500
NWT141606-2-A		1.1	18	14	12	10	43	37	33	43	37	33	
NWT150704-2-A		1.0	18	14	13	12	40	35	30	35			
NWT181306-1-A		1.0	18	16	12	10	43	37	33	43	37	33	
NWT181306-2-A		1.0	18	16	12	10	43	37	33	43	37	33	

● NWT281206、NWT281308、NWT281207 TYPE

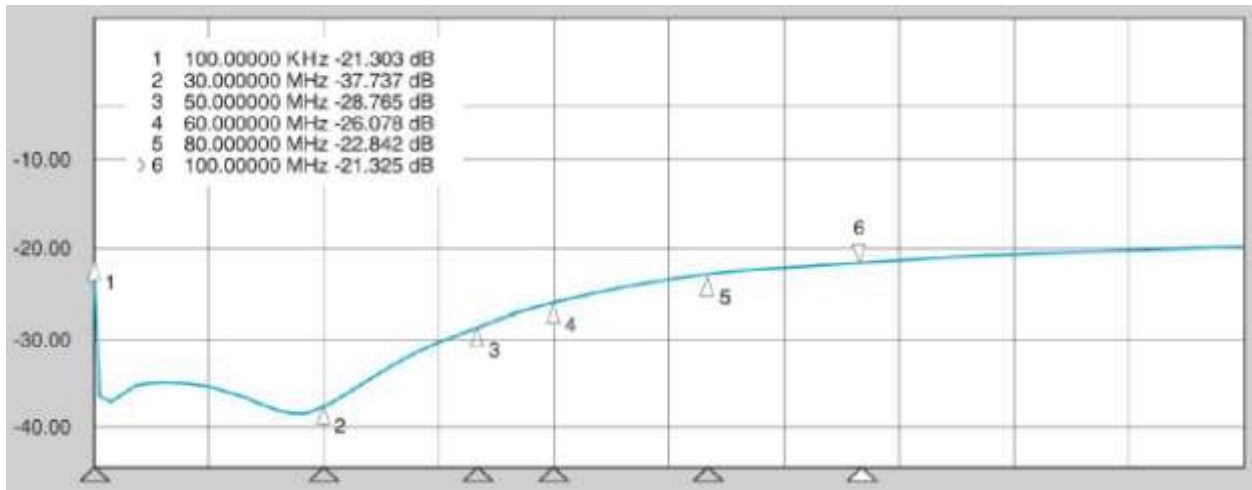
Part Number	Turn Ratio	Insertion Loss 0.1~100 (MHz) (dBmax)	Return Loss (dBmin)				Common mode rejection ratio (dBmin)			Cross Interference (dBmin)			Withstand Voltage (Vrms) AC 2mA, 60s
			30	60	80	10	30	50	100	30	60	100	
NWT281206-1-A	1:1	1.4	18	14.4	13.1	12	37	25		45	40	33	1500
NWT281308-1-C	1:1	1.4	18	14.4	13.1	12	37	25		45	40	33	1500
NWT281207-1-C	1:1	1.4	16	14.4	13.1	12	45	40	35	43.5	37.5	33.5	1500

DETAIL ELECTRICAL CHARACTERISTICS

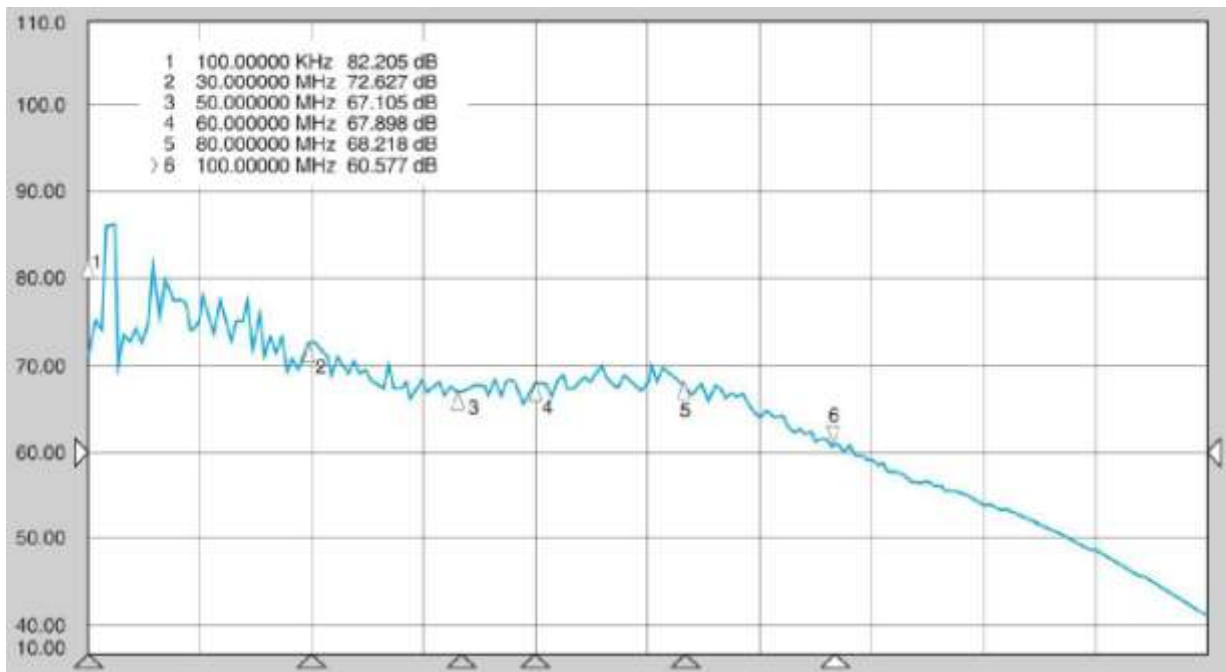
● NWT130706 Insertion Loss-Frequency



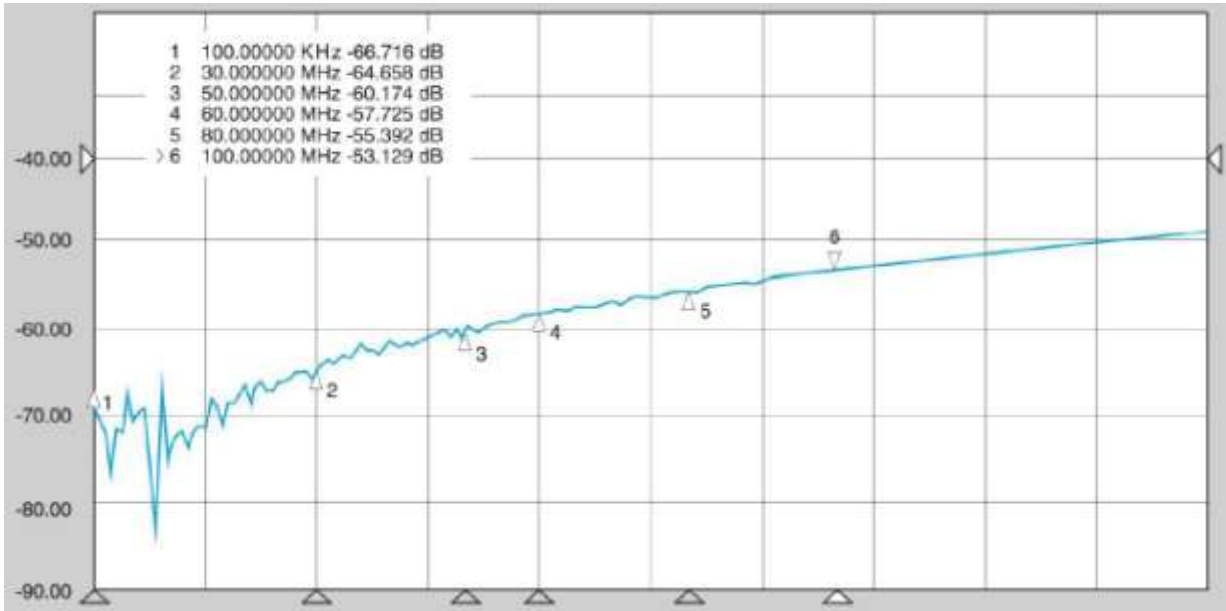
● NWT130706 Return Loss-Frequency



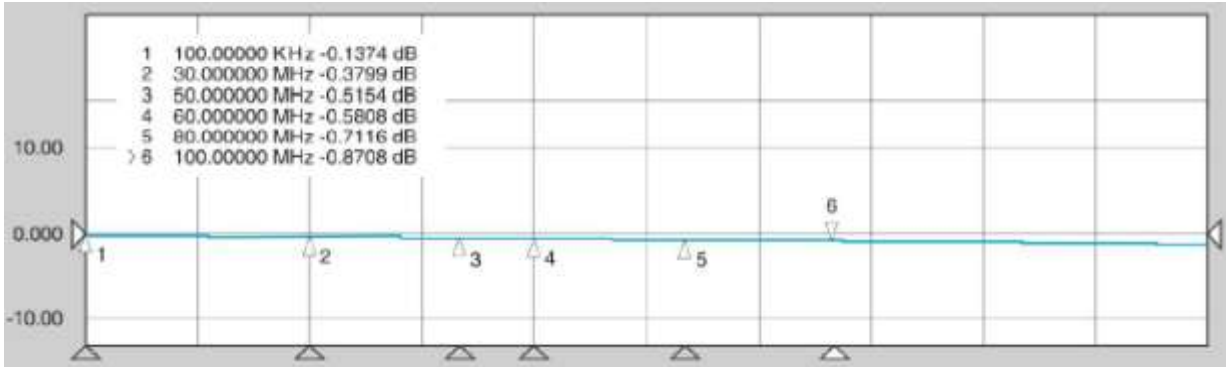
● NWT130706 Common mode rejection ratio-Frequency



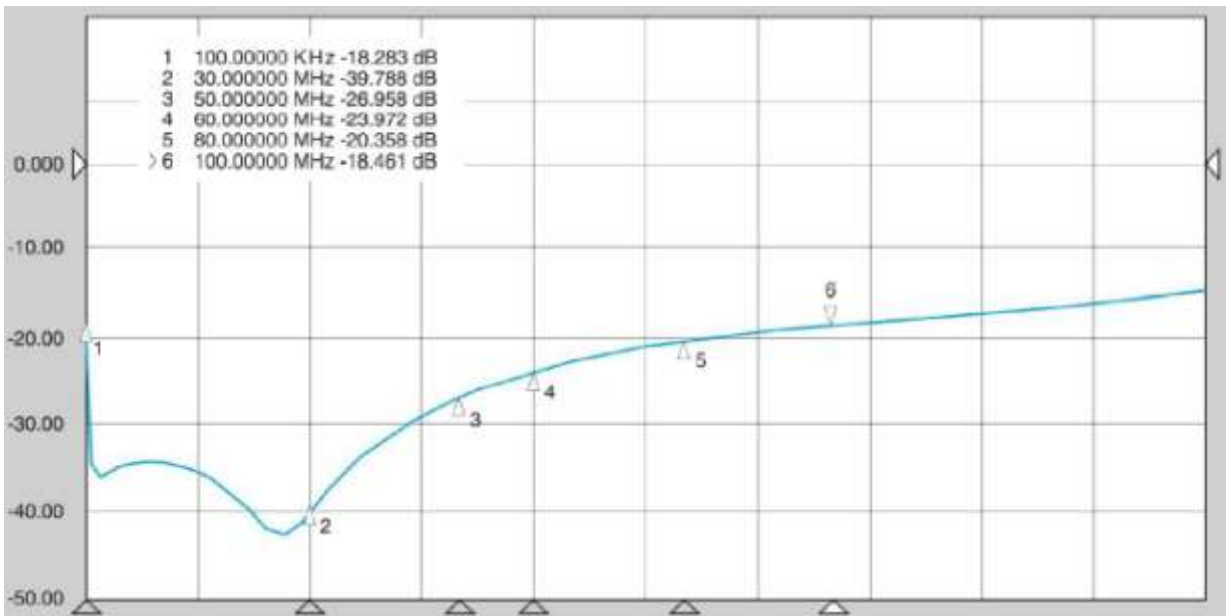
● NWT130706 Cross Interference-Frequency



● NWT281206 Insertion Loss-Frequency



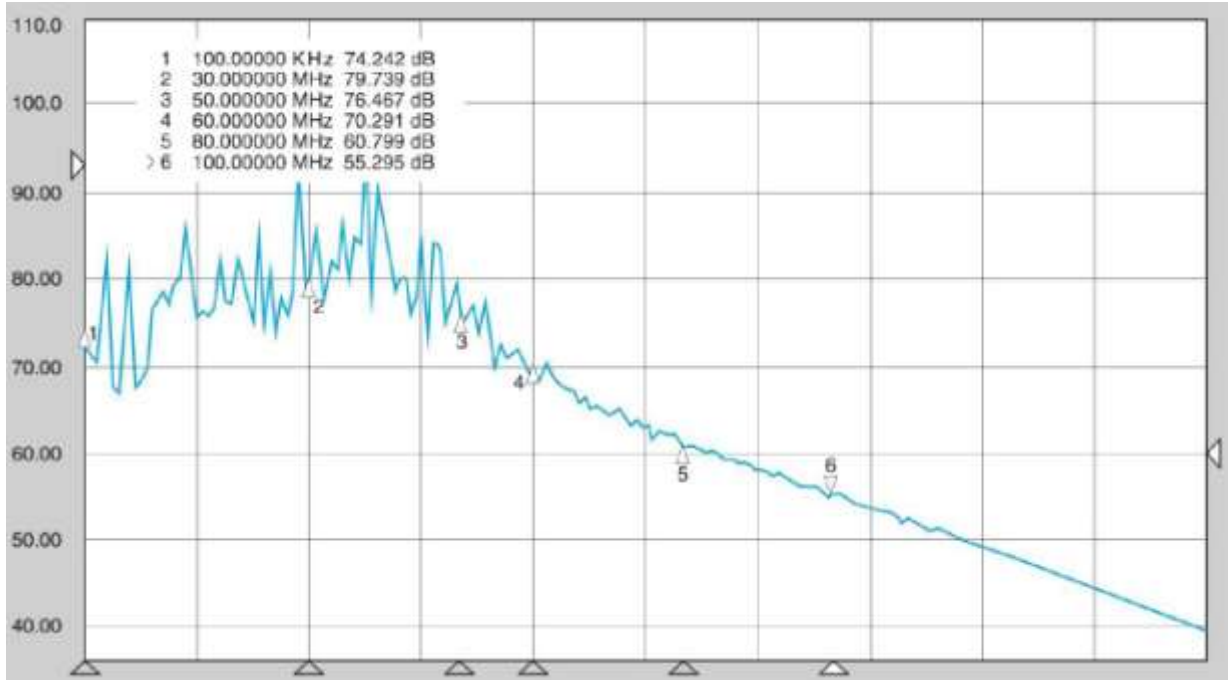
● NWT281206 Return Loss-Frequency



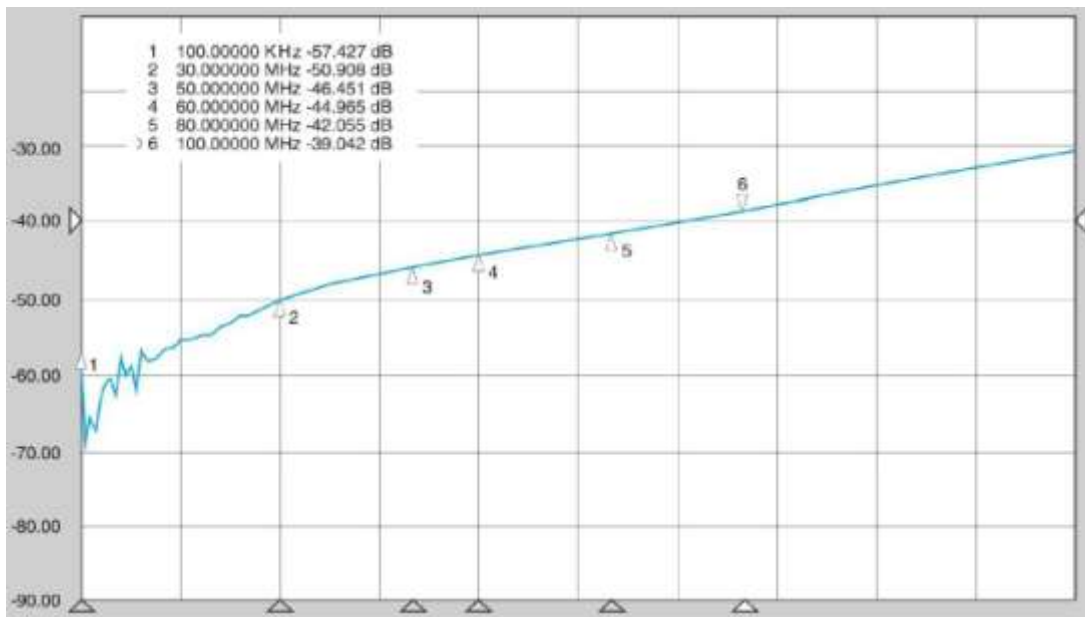
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● NWT281206 Common mode rejection ratio-Frequency



● NWT281206 Cross Interference-Frequency



Mode Comparison Table

Part No	Our No	Manufactures	Part No	Part No	Our No	Manufactures	Part No
1	NWT130706-1-A	Pulse	H1102	15	NWT130705-1-C	Pulse	H1102
2	NWT130706-1-A	WE	749010013	16	NWT130705-1-C	WE	749010013
3	NWT130706-2-A	Pulse	HX1188	17	NWT130705-2-C	Pulse	HX1188
4	NWT130706-3-A	Pulse	HX1260	18	NWT130705-2-C	WE	7490100111A
5	NWT130706-4-A	Pulse	100B-1003X	19	NWT130705-3-C	Pulse	HX1260
6	NWT281206-1-A	Pulse	HX1234	20	NWT151504-1-A	Pulse	H0009NL
7	NWT261006-1-A	Pulse	H1013	21	NWT130706-5-A	Pulse	HN16012CG
8	NWT261006-2-A	Pulse	H1012	22	NWT181306-3-A	Pulse	HN2411CG
9	NWT141606-1-A	Pulse	HX5008	23	NWT130804-1-A	Pulse	H0013
10	NWT281206-2-A	Pulse	HX1164	24	NWT141606-2-A	HALOs	TG1G-E001NY
11	NWT281308-1-C	Pulse	HX1234	25	NWT141606-2-A	Pulse	H5009
12	NWT281308-2-C	Pulse	H1164	26	NWT160705-1-A	Pulse	HR682480
13	NWT281308-3-C	Pulse	HX1259NL	27	NWT130705-4-C	HALO	TG110-S050N2
14	NWT281308-4-C	XFMRs	XFATM8Q25	28	NWT100403-1-A	FLY-CORE	FC1088NLE

1000BASE-T (千兆)

1	NWT280809-1-A	Pulse	HX5020	9	NWT160706-1-A	TDK	TLA-7T101LF-T
2	NWT281207-1-C	Pulse	HX5014NL	10	NWT150704-1-A	Pulse	HX5084
3	NWT181511-1-D	Pulse	HX5201NL	11	NWT150704-2-A	WE	74902002
4	NWT1062HUXB	Pulse	TM1062HUXB	12	NWT150704-2-A	BOTHHAND	LT1606-A
5	NWT1062TX3DUA	Pulse	TM1062TX3DUA	13	NWT150704-2-A	Pulse	GST5009
6	NWT181306-1-A	Pulse	HX5004NL	14	NWT201703-1-A	HALO	HX5019BNL
7	NWT181306-2-A	Pulse	H5007NL	15	NWT260808-1-A	Pulse	TG1G-E041NU
8	NWT161002-1-C	Pulse	H5120NL				



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