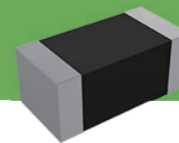


Multilayer Chip Ferrite Bead –AUPZ Series



Operating Temp : -55°C ~+125°C

FEATURES

- ◆ Internal silver printed layers and magnetic shielded structures to minimize crosstalk
- ◆ Smaller DC resistance and larger allowable current than APZ series
- ◆ Can be used in a wide range of frequency to suppress EMI
- ◆ Operating temperature range: -55°C ~125°C
- ◆ AEC-Q200D verified

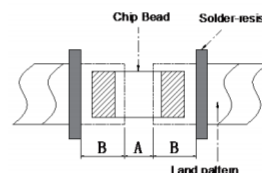
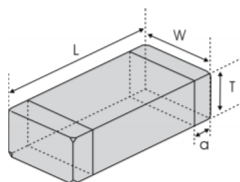
APPLICATIONS

- ◆ Noise suppression for power lines or large current signal lines of automotive powertrain/safety equipment, automotive infotainment/comfort equipment, consumer equipment

PRODUCT IDENTIFICATION

1	A	2	UPZ	3	18S	4	U	5	G	6	121	7	H	8	1	9	T		
1		Feature Code		2		Type		3										External Dimensions (L×W) (mm)	
A		For Automotive		UPZ		Chip Ferrite Bead For Ultra Large Current		18T										1.6×0.8×0.6	
								18S										1.6×0.8×0.8	
								21S										2.00×1.25×0.85	
								31S										3.2×1.6×1.1	
								31K										3.2×1.6×1.6	
4		Material Code		5		Internal Code		6										Nominal Impedance	
U, W				G, H, X				Example										Nominal Value	
								300										30Ω	
								121										120Ω	
								601										600Ω	
								102										1000Ω	
7		Application Category		8		Maximum Operating temperature		9										Packing	
S		Prohibit using in Engine Control System		1		125°C		T										Tape & Reel	
H		All applications																	

SHAPE AND DIMENSIONS



Unit: mm [inch]

Type	L	W	T	a	A	B	C
18T [0603]	1.6±0.15 [.063±.006]	0.8±0.15 [.031±.006]	0.6±0.15 [.024±.006]	0.4±0.2 [.016±.008]	0.63	0.76	1.05
18S [0603]	1.6±0.15 [.063±.006]	0.8±0.15 [.031±.006]	0.8±0.15 [.031±.006]	0.4±0.2 [.016±.008]	0.63	0.76	1.05
21S [0805]	2.0±0.2 [.079±.008]	1.25±0.2 [.049±.008]	0.85±0.2 [.033±.008]	0.5±0.2 [.020±.008]	0.64	0.99	1.45
31S [1206]	3.2±0.2 [.126±.008]	1.60±0.2 [.063±.008]	1.10±0.2 [.043±.008]	0.7±0.3 [.028±.012]	1.39	1.44	1.80
31K [1206]	3.2±0.2 [.126±.008]	1.60±0.2 [.063±.008]	1.60±0.2 [.063±.008]	0.7±0.3 [.028±.012]	1.39	1.44	1.80

SPECIFICATIONS AUPZ18 TYPE

Part Number	Impedance	Z Test Frequency	Max. DC Resistance		Max. Rated Current		Thickness
			Initial Value	Value After Testing	@85°C	@125°C	
Units	Ω	MHz	m Ω		A		mm [inch]
Symbol	Z	Freq.	DCR		Ir		T
AUPZ18TUX300H1T	30 $\pm$ 25%	100	10	20	5.00	2.00	0.6 $\pm$ 0.15 [.024 $\pm$.006]
AUPZ18TUX101H1T	100 $\pm$ 25%	100	30	50	3.00	1.00	
AUPZ18SUG330H1T	33 $\pm$ 25%	100	25	50	3.00	1.00	0.8 $\pm$ 0.15 [.031 $\pm$.006]
AUPZ18SUG121H1T	120 $\pm$ 25%	100	50	100	2.00	1.00	
AUPZ18SUH121H1T	120 $\pm$ 25%	100	40	100	3.00	1.00	
AUPZ18SUG221H1T	220 $\pm$ 25%	100	50	100	2.20	1.00	
AUPZ18SUX331H1T	330 $\pm$ 25%	100	80	95	1.70	1.20	
AUPZ18SWG391H1T	390 $\pm$ 25%	100	120	150	1.20	0.50	
AUPZ18SUG471H1T	470 $\pm$ 25%	100	200	260	1.00	1.00	
AUPZ18SUH471H1T	470 $\pm$ 25%	100	150	180	1.20	1.00	
AUPZ18SUG601H1T	600 $\pm$ 25%	100	150	300	1.00	0.5	
AUPZ18SUG102H1T	1000 $\pm$ 25%	100	300	350	0.80	0.50	
AUPZ18SUH102H1T	1000 $\pm$ 25%	100	200	250	1.00	0.50	
AUPZ18SUX102H1T	1000 $\pm$ 25%	100	200	230	1.00	0.80	

AUPZ21 TYPE

Part Number	Impedance	Z Test Frequency	Max. DC Resistance		Max. Rated Current		Thickness
			Initial Value	Value After Testing	@85°C	@125°C	
Units	Ω	MHz	m Ω		A		mm [inch]
Symbol	Z	Freq.	DCR		Ir		T
AUPZ21SUG220H1T	22 $\pm$ 25%	100	9	18	6.00	3.30	0.85 $\pm$ 0.2 [.033 $\pm$.008]
AUPZ21SUG101H1T	100 $\pm$ 25%	100	20	40	4.00	2.00	
AUPZ21SUG121H1T	120 $\pm$ 25%	100	30	60	3.00	1.55	
AUPZ21SUG221H1T	220 $\pm$ 25%	100	40	80	3.00	1.50	
AUPZ21SUG601H1T	600 $\pm$ 25%	100	100	120	2.00	1.00	

AUPZ31 TYPE

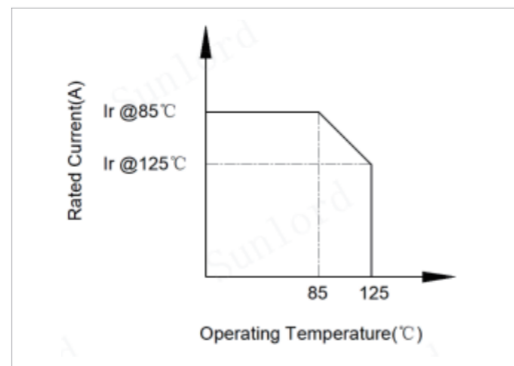
Part Number	Impedance	Z Test Frequency	Max. DC Resistance		Max. Rated Current		Thickness
			Initial Value	Value After Testing	@85°C	@125°C	
Units	Ω	MHz	m Ω		A		mm [inch]
Symbol	Z	Freq.	DCR		Ir		T
AUPZ31SUG330H1T	33 $\pm$ 25%	100	9	18	6.00	3.50	1.10 $\pm$ 0.2 [.043 $\pm$.008]
AUPZ31SUG121H1T	120 $\pm$ 25%	100	20	40	3.50	2.00	
AUPZ31SUG601H1T	600 $\pm$ 25%	100	80	160	1.50	1.00	1.60 $\pm$ 0.2 [.063 $\pm$.008]
AUPZ31KUX601H1T	600 $\pm$ 25%	100	38	45	2.90	2.00	
AUPZ31KUX102H1T	1000 $\pm$ 25%	100	75	90	2.00	1.40	

※: Products with other electrical characteristics can be provided upon customer's request. Please contact your local sales.

TYPICAL ELECTRICAL CHARACTERISTICS

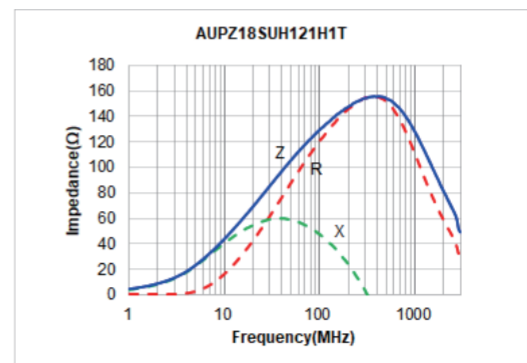
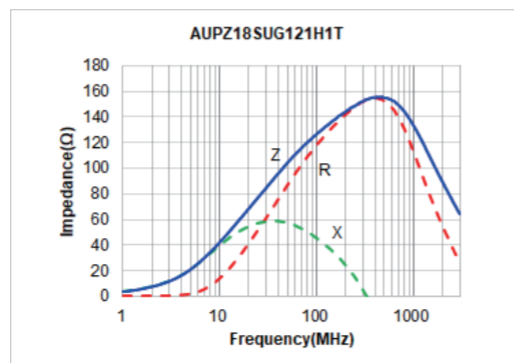
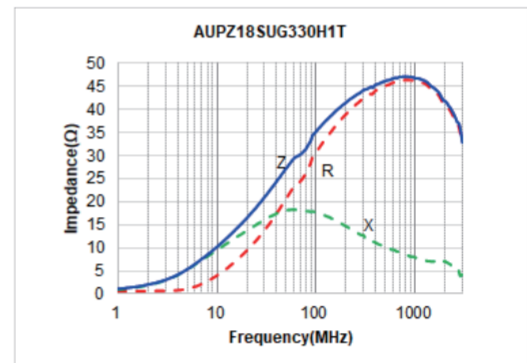
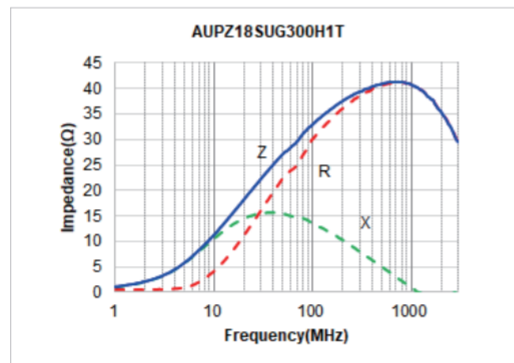
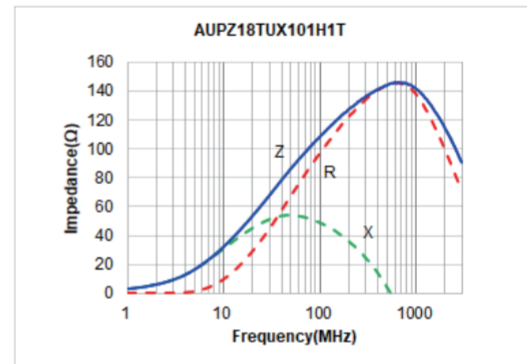
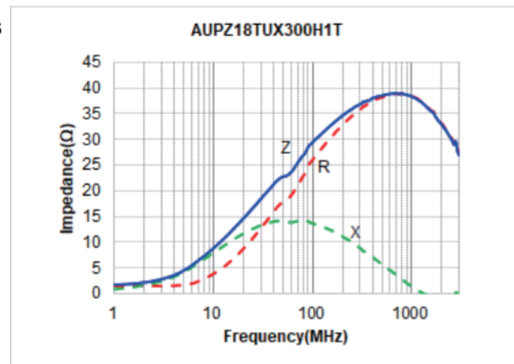
Rated Current

When Operating temperatures exceeding +85°C , Please apply the derating curve shown in chart according to the Operating temperature.



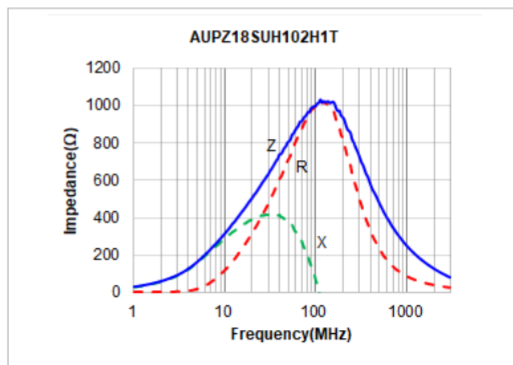
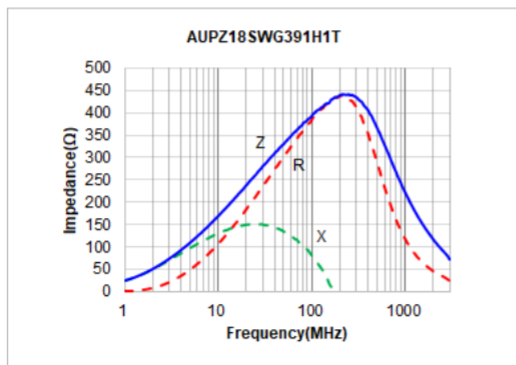
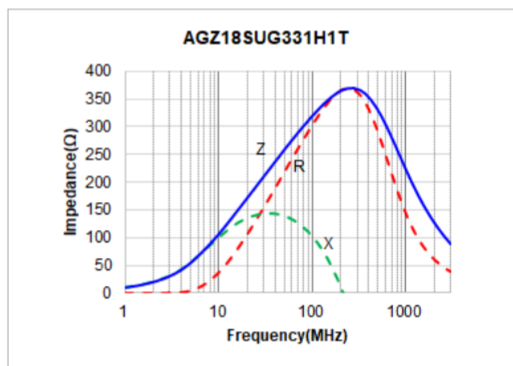
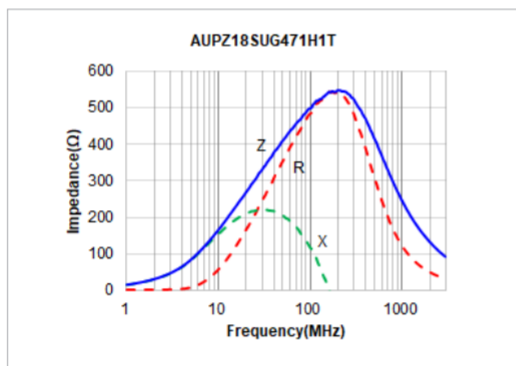
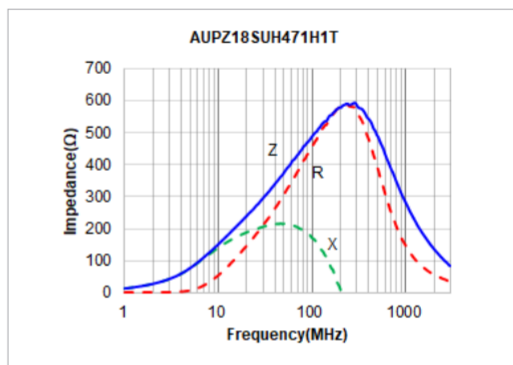
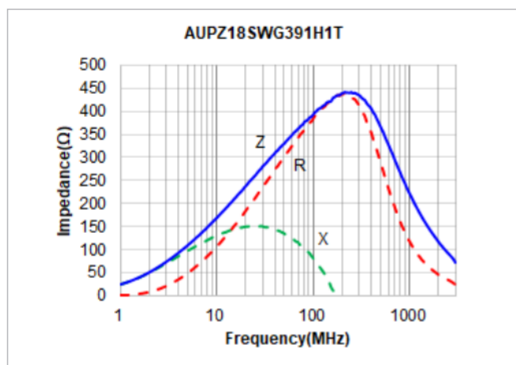
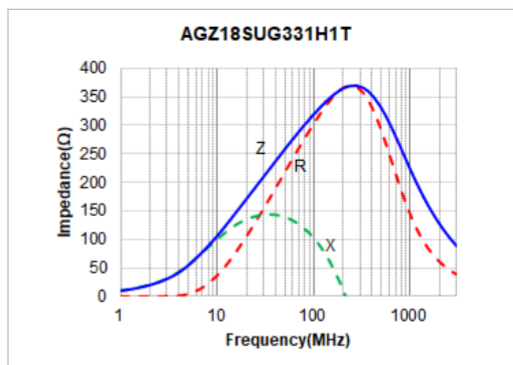
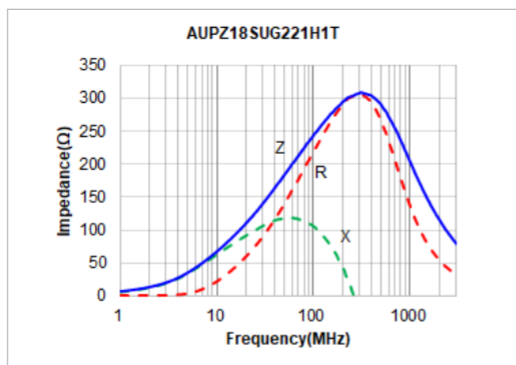
DETAIL ELECTRICAL CHARACTERISTICS

AUPZ18 TYPE



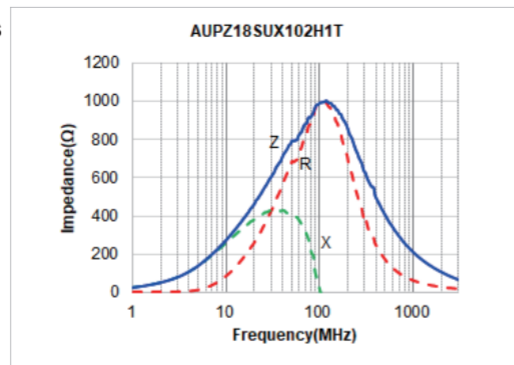
**DETAIL
ELECTRICAL
CHARACTERISTICS**

AUPZ18 TYPE

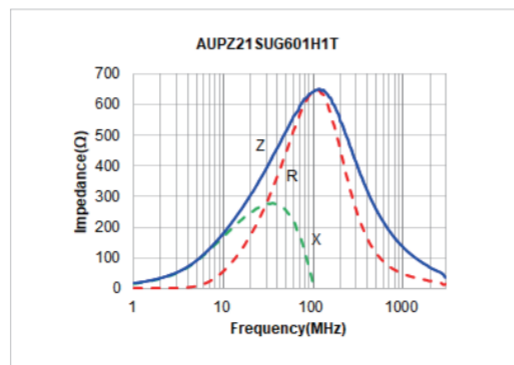
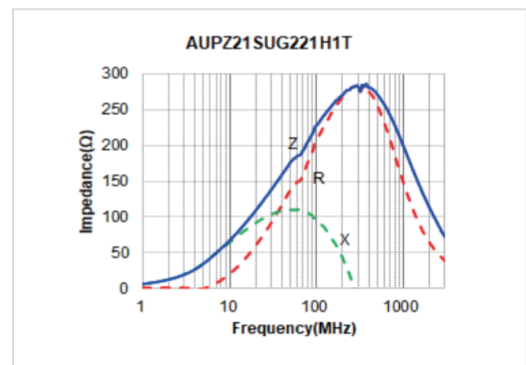
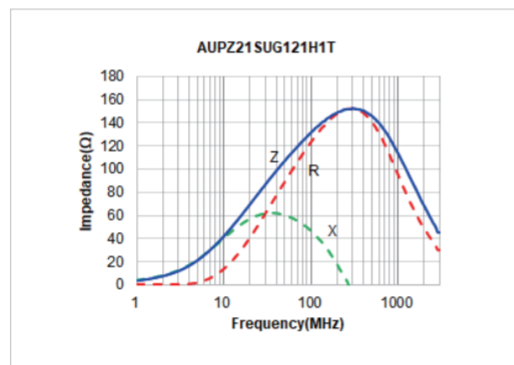
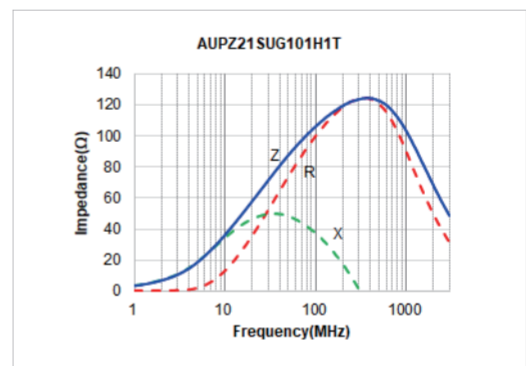
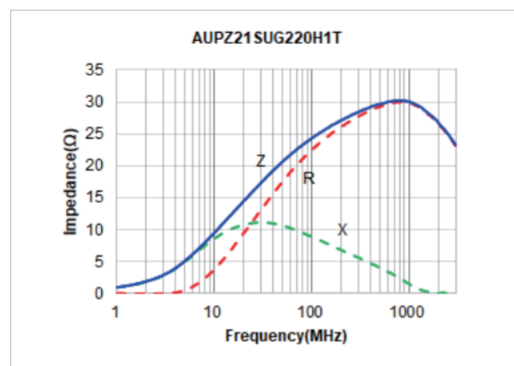


**DETAIL
ELECTRICAL
CHARACTERISTICS**

AUPZ18 TYPE



AUPZ21 TYPE



**DETAIL
ELECTRICAL
CHARACTERISTICS**

AUPZ31 TYPE

