

UWB Series



FEATURES

- The UWB series available for clean all power and clock noise in any platform.
- Lowprofile and small size SMD Design with standard 0803 and 1005 size.
- The UWB series can be used in high current circuits due to its low DC resistance. It can match power line to a maximum of 3A DC.
- Compatible with AEC-Q200.

APPLICATIONS

- Powerful application in MIL, Medical, Vehicle, Industrial , RF filed EMC noise Clean and Immunity Protect.
- Powerful application in any kinds Clock and digital high speed Data and Address noise clean (especially DDR, DVI, HDMI, MDI, CLK signal, etc).

PRODUCT IDENTIFICATION

UWB

①

2108

②

G3

③

①

Type	
UWB	Ultra Wideband Filter

②

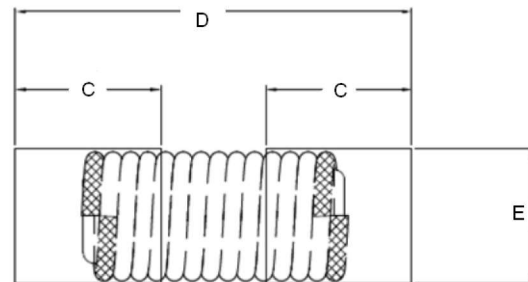
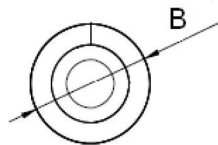
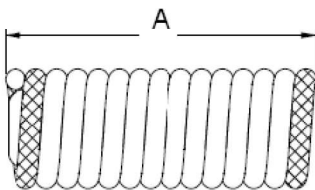
External Dimensions (L×W) (mm)	
2108	2.1×0.8
2612	2.55×1.25

③

Code	
G3	Frequency Band Width

SIZE AND DIMENSION

Unit: mm



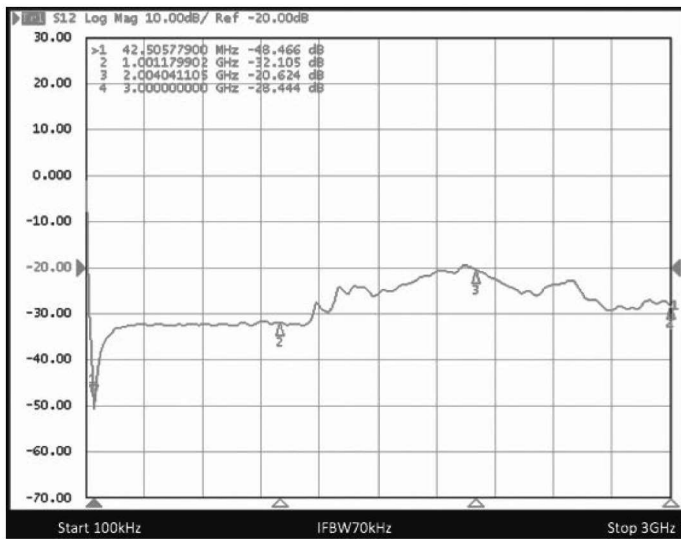
TYPE	Size and Dimension		Recommended Pattern		
	A	B	C	D	E
UWB2108G3	2.10±0.2	0.81±0.1	1.2±0.05	3.3±0.05	0.9±0.05
UWB2612G2	2.55±0.2	1.25±0.1	1.7±0.05	4.4±0.05	1.3±0.2

SPECIFICATIONS

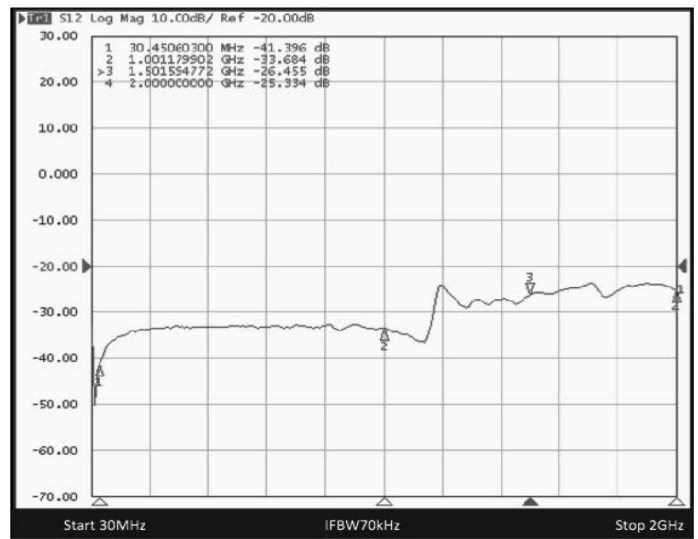
Part Number	Impedance (Type) @100MHz	Max. DC Resistance	Max. Rated Current	Band Width	Insulation	Match De-Capacitor
Units	nH	mΩ	mA	Hz	dB	uF
Symbol	L	DCR	I _r			
UWB2108G3	300	45	2000	100k ~ 1.0G	-35	0.1
				1.0G ~ 3.0G	-25	0.1
UWB2612G2	340	45	3000	30M ~ 1.0G	-35	0.1 ~ 1.0
				1.0G ~ 2.0G	-25	0.1 ~ 1.0

TYPICAL ELECTRICAL CHARACTERISTICS

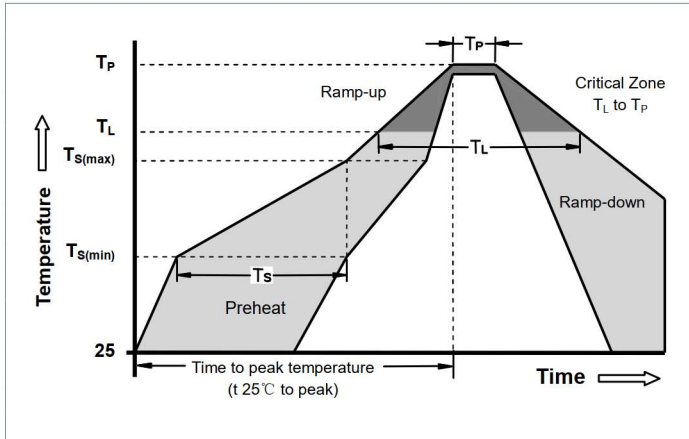
UWB2108G3



UWB2612G2



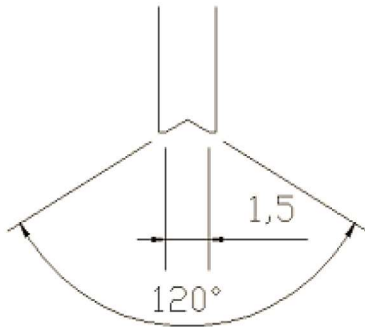
Soldering Parameters



Reflow Condition		Lead-free assembly
Pre Heat	-Temperature Min ($T_{s(min)}$)	150°C
	-Temperature Max ($T_{s(max)}$)	200°C
	- Time (min to max) (T_s)	60 -120 Seconds
Average ramp up rate (Liquidus Temp T_L) to peak		3°C/second Max
$T_{s(max)}$ to T_L - Ramp-up Rate		3°C/second Max
	- Temperature (T_L) (Liquidus)	230°C
	- Time (min to max) (T_L)	30 - 60 Seconds
Peak Temperature (T_P)		245 +0/-5°C
Time within 5°C of actual peak Temperature (t_p)		10 Seconds Max
Ramp-down Rate		6°C/second Max
Time 25°C to peak Temperature (T_P)		8 minutes Max
Do not exceed		270°C

SMD Machine Head 120° V Cut Diagram (unit: mm)

Note: Non-ferromagnetic material



Packaging

Part Number	Component Package	Quantity	Packaging Option	Packaging Specification
UWB2108G3	/	4000	Tape & Reel -8mm/7"tape	EIA STD RS-481
UWB2612G2	/	3000	Tape & Reel -8mm/7"tape	EIA STD RS-481

Tape and Reel Specifications

Dimensions are in inches (and millimeters)

