

ET3DV5 SN:1368

DASY3 – Parameters of Probe: ET3DV5 SN:1368

Sensitivity in Free Space

NormX	1.35	$\text{mV}/(\text{V}/\text{m})^2$
NormY	1.29	$\text{mV}/(\text{V}/\text{m})^2$
NormZ	1.46	$\text{mV}/(\text{V}/\text{m})^2$

Diode Compression

DCP X	78	mV
DCP Y	78	mV
DCP Z	78	mV

Sensitivity in Tissue Simulating Liquid

450 MHz	ConvF X	6.2	extrapolated
	ConvF Y	6.2	extrapolated
	ConvF Z	6.2	extrapolated

$\epsilon_r =$	$48 \pm 5\%$
$\sigma =$	$0.50 \pm 10\% \text{mho/m}$
(brain tissue simulating liquid)	

900 MHz	ConvF X	5.8	$\pm 10\%$
	ConvF Y	5.8	$\pm 10\%$
	ConvF Z	5.8	$\pm 10\%$

$\epsilon_r =$	$42.5 \pm 5\%$
$\sigma =$	$0.86 \pm 10\% \text{mho/m}$
(brain tissue simulating liquid)	

1500 MHz	ConvF X	5.2	interpolated
	ConvF Y	5.2	interpolated
	ConvF Z	5.2	interpolated

$\epsilon_r =$	$41 \pm 5\%$
$\sigma =$	$1.32 \pm 10\% \text{mho/m}$
(brain tissue simulating liquid)	

1800 MHz	ConvF X	4.9	$\pm 10\%$
	ConvF Y	4.9	$\pm 10\%$
	ConvF Z	4.9	$\pm 10\%$

$\epsilon_r =$	$41 \pm 5\%$
$\sigma =$	$1.62 \pm 10\% \text{mho/m}$
(brain tissue simulating liquid)	

835 MHz	ConvF X	5.7	$\pm 10\%$
	ConvF Y	5.7	$\pm 10\%$
	ConvF Z	5.7	$\pm 10\%$

$\epsilon_r =$	$56.2 \pm 5\%$
$\sigma =$	$0.95 \pm 10\% \text{mho/m}$
(muscle tissue simulating liquid)	

900 MHz	ConvF X	5.6	$\pm 10\%$
	ConvF Y	5.6	$\pm 10\%$
	ConvF Z	5.6	$\pm 10\%$

$\epsilon_r =$	$56.0 \pm 5\%$
$\sigma =$	$0.97 \pm 10\% \text{mho/m}$
(muscle tissue simulating liquid)	

1900 MHz	ConvF X	4.3	$\pm 10\%$
	ConvF Y	4.3	$\pm 10\%$
	ConvF Z	4.3	$\pm 10\%$

$\epsilon_r =$	$54.2 \pm 5\%$
$\sigma =$	$1.85 \pm 10\% \text{mho/m}$
(muscle tissue simulating liquid)	

Sensor Offset

Probe Tip to Sensor Center	2.7	mm
Surface to Probe Tip	1.7±0.2	mm