

| Macro cmd | 0x12 | 0x12 | 0x14 | 0x34 | 0x50 |
|-----------------------------------|-----------|-----------|-----------|--------|-----------|
| Macro ID | 0x202 | 0x212 | 0x204 | 0x404 | 0x600 |
| Notes | Replaced | Use 0x505 | Use 0x526 | | Use 0x525 |
| | | | | EbEb | |
| Purpose | Swp, HF | Swp, HF | Swp, HF | EE | Swp, HF |
| TM rate | NM | NM | BM | NM | NM |
| Bias mode | NN | NN | NN | NN | NN |
| Fix bias P1 | 0 V | 0 V | 0 V | | +20 V |
| Fix bias P2 | 0 V | 0 V | 0 V | | +20 V |
| Gain/bias P1 | hi | hi | hi | ibias | hi |
| Gain/bias P2 | hi | hi | hi | ibias | hi |
| LF continuous data (ADC20) | | | | | |
| Note | | | | | |
| Sampled data | - | - | - | V1, V2 | - |
| Number of signals | 0 | 0 | 0 | 2 | 0 |
| Averaging | | | | | |
| Downsampling | | | | 32 | 1 |
| f _{samp} [Hz] | | | | 1.81 | 57.80 |
| Bits/sample transmitted | | | | 16 | |
| Samples/AQP/probe | | | | 39 | |
| Cadency (if not 1) [AQPs] | | | | | |
| Cadency (if not 32s) [s] | | | | | |
| HF wave snapshots (ADC16) | | | | | |
| Sampled data | 11 | 11, 12 | 11, 12 | . | 11, 12 |
| Number of signals | 2 | 2 | 2 | 0 | 2 |
| Downsampling | 1 | 1 | 1 | | 1 |
| f _{samp} [Hz] | 18750 | 18750 | 18750 | | 18750 |
| Samples | 256 | 256 | 2048 | | 256 |
| Cadency [AQPs] | 8 | 8 | 2 | 1 | 8 |
| Cadency [s] | 256 | 256 | 64 | 32 | 256 |
| Coarse sweeps (ADC16) | | | | | |
| Probes | P1, P2 | P1, P2 | P1, P2 | . | P1, P2 |
| Number of signals | 2 | 2 | 2 | 0 | 2 |
| Shape | \ | \ | V | | \ |
| Directions (1 or 2) | 1 | 1 | 2 | | 1 |
| Cadency [AQPs] | 8 | 8 | 2 | 1 | 8 |
| Cadency [s] | 256 | 256 | 64 | 32 | 256 |
| Range [V] | [-11,+11] | [-30,+15] | [-25,+25] | | [-30,+20] |
| Step [V] | 1 | 1 | 0.5 | | 1 |
| Number of steps | 48 | 48 | 208 | | 48 |
| Plateau duration [cycles] | 512 | 512 | 512 | | 512 |
| Plateau duration [ms] | 27.3 | 27.3 | 27.3 | 0.0 | 27.3 |
| Downsampling | 128 | 128 | 64 | 1 | 128 |
| Samples per plateau | 4 | 4 | 8 | 0 | 4 |
| Samples/sweep/probe | 202 | 202 | 1678 | 1 | 202 |
| Sweep duration [s] | 1.38 | 1.38 | 5.73 | 0.00 | 1.38 |
| Fine sweeps (ADC16) | | | | | |
| Probes | . | . | . | . | . |
| Number of signals | 0 | 0 | 0 | 0 | 0 |
| Shape | | | | | |
| Cadency [AQPs] | 1 | 1 | 1 | 1 | 1 |
| Cadency [s] | 32 | 32 | 32 | 32 | 32 |
| Offset [V] | | | | | |
| Range [V] | | | | | |
| Step [mV] | | | | | |
| Number of steps | | | | | |
| Plateau duration [cycles] | | | | | |
| Downsampling | | | | | |
| Samples per plateau | | | | | |
| Samples/sweep/probe | | | | | |
| First upload [yymmdd] | | 040908 | | | |
| TM LF [bps] | 0.0 | 0.0 | 0.0 | 39.0 | 0.0 |
| TM HF [bps] | 32.0 | 32.0 | 1024.0 | 0.0 | 32.0 |
| TM CSwp [bps] | 25.3 | 25.3 | 839.0 | 0.0 | 25.3 |
| TM FSwp [bps] | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| TM total [bps] | 57.3 | 57.3 | 1863.0 | 39.0 | 57.3 |

Field colour:

Green: currently preferred

non-LDL science macros

Orange: currently preferred

LDL science macros

Yellow: maintenance,

diagnostics, etc

White: superseded science

macros

Blue: ideas

Pink: test macros only used

once for verifying internal

functionality after launch, not

for science use.

Text colour:

Black: NM

Red: BM